

The Federal Research and Development Portfolio

Vital Assets

Federal Investment
in Research and
Development at the
Nation's Universities
and Colleges

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About This Analysis

The federal government’s investment in the research and development (R&D) being conducted at the nation’s universities and colleges has grown considerably in recent years and represents a pivotal part of the U.S. innovation system—one that advances knowledge of the world and provides critical training to the next generation of scientists and engineers.

The analysis in this report assesses that investment. The analysis drew on the RAND Corporation’s RaDiUS (Research and Development in the United States) database and was designed to provide an empirical basis for assessing the federal investment in university-based R&D. It builds on work described in *Discovery and Innovation: Federal Research and Development Activities in the Fifty States, District of Columbia, and Puerto Rico* (Fossum et al., 2000). That earlier work, which also drew on the RaDiUS database, created profiles of federal R&D spending and programs for each state and the two territories. Each profile also provided a brief look at the federal R&D funds going to the state or territory’s universities and colleges. Subsequent requests for more detailed information on this topic ultimately led to the current report.

Information on federal R&D funds that are going to the nation’s universities and colleges can vary considerably depending on the source of the information and how it was collected. The data presented in this report are drawn from official transactional records of the U.S. government rather than from surveys, so the accounting of which universities and colleges received federal funds for the conduct of R&D—as this term is defined by the federal government—in a single fiscal year is more complete and accurate. The results are presented both by state, including the District of Columbia and Puerto Rico, and by individual university and college. Such data have a variety of potential uses, from gauging the competitive status of specific institutions of higher education to underpinning the planning of regional economic development.

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- Helps science and technology decisionmakers understand the likely consequences of their decisions and choose among alternative policies; and
- Helps improve understanding in both the public and the private sector of the ways in which science and technology can better serve national objectives.

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BACKGROUND AND PURPOSE

Universities and colleges conduct a substantial portion of America's scientific research. Much of this research is funded by federal research and development (R&D) dollars. Federal R&D funds help universities advance general knowledge, support a range of federal missions, train future scientists and engineers, and enhance economic growth in the communities where they operate. Despite the importance of these activities, decisionmakers face difficulty assessing and monitoring the size of this federal R&D investment and its changing profile over time. This difficulty is rooted in a lack of access to accurate, timely, consistent, and comprehensive information about federal funds going to university and college R&D. As a result, funding allocations and policy decisions are often made without adequate information.

This report is intended to provide an empirical basis for assessing the federal investment in university-based R&D. To do this, RAND compiled a comprehensive list of all the federal R&D funds going to every university and college in the 50 states, the District of Columbia, and Puerto Rico (hereafter referred to collectively as "the states"). The analysis used RAND's RaDiUS (Research and Development in the United States) database of federal R&D funding and activities. This report presents the results of the analysis. Specifically, it provides information on

- State-by-state trends in federal funding of R&D at U.S. universities and colleges from FY 1996 through FY 2002,
- Which federal agencies provided what amounts and types of R&D funds to universities and colleges in FY 2002, and
- What levels of R&D funding individual universities and colleges received in FY 2002.

This report is intended as a reference document for national, regional, state, and university decisionmakers and planners interested in assessing the relative competitiveness of particular university systems and individual campuses in obtaining federal R&D funds. It is also intended to stimulate and enable further analysis and assessment of trends, priorities, and resource allocations involving federally funded R&D.

METHODOLOGY AND APPROACH

The data presented in this report come from the RaDiUS database. RaDiUS systematically tracks all federal R&D funds by tracing them from their most aggregate level in the federal government, at which the R&D activities are planned in general, to their most detailed level, at which the R&D is actually conducted. The most-aggregated data presented are for FY 1996 through FY 2002. The most-detailed data are from FY 2002, since this is the most recent fiscal year for which such data are available. For that year, we also identified all individual R&D awards that went to the 126 accredited medical schools located within the nation's universities and colleges. For additional details on the methodology of this analysis, see Appendix B.

CONCLUSIONS AND IMPLICATIONS

The data show that between FY 1996 and FY 2002, total federal R&D funds going to universities and colleges grew from \$12.8 billion to \$21.4 billion, for an overall increase of 45.7 percent in constant 1996 dollars. The level of increase in federal R&D funds going to universities and colleges between FY 1996 and FY 2002 was more than double the overall increase in total federal R&D funds during the same period in constant 1996 dollars (i.e., 45.7 percent versus 20.9 percent).

Much of this growth was attributable to sizable increases in R&D funding at the Department of Health and Human Services (HHS), most especially the National Institutes of Health. The main recipients of HHS's funds were nonfederal entities, primarily universities and colleges. By far the most striking finding of this analysis was the discovery that, in FY 2002, 45 percent of all federal R&D funds provided to universities and colleges by HHS and all other federal agencies went directly to medical schools. Because some states do not have medical schools and others have many, this pattern skews the distribution of federal R&D funds among the various states considerably.

Implications for Federal R&D Priorities

The profile of federally funded R&D at universities and colleges that emerges from this analysis raises issues of proportionality. Specifically, in the current funding profile, approximately two-thirds of the federal funds going to universities and colleges for the conduct of R&D is focused on only one field of science—life science—and federal R&D funding is concentrated at only a few research universities. These findings raise questions about whether other critical national needs that have substantial R&D components (such as environment, energy, homeland security, and education) are receiving the investment they require and whether the concentration of dollars at a few institutions is shortchanging science students at institutions that receive little or no federal R&D funding.

Implications for Decisionmaking

This analysis provides information that should help clarify several issues for university and college decisionmakers as well as federal agencies.

First, universities and colleges have lacked long-term, consistent data with which to gauge their success at acquiring R&D funding. In the absence of such data, credible comparisons among institutions cannot be made. This analysis enables all universities and colleges with R&D activity to know where they stand relative to other institutions in their ability to obtain federal R&D funds.

Second, the vehicle used to convey federal R&D funds to universities and colleges (i.e., grant versus contract) is important because it establishes the legal “ground rules” for conducting federally funded R&D. This analysis disproves the persistent stereotype that *all* federal R&D funds are conveyed to universities and colleges via peer-reviewed project grants. As a result, all universities and colleges now have accurate information on the funding mechanisms the federal government has actually used to transmit R&D funds to them, so they can better assess intellectual property issues arising from such R&D.

Third, using the data in this report, federal R&D agencies can now specifically target the universities and colleges in the nation that truly need federal assistance to build their R&D capacity.

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Affiliated Research Institute—A nonprofit, independently operated research organization that is very closely affiliated with a particular university or college. These research organizations share research facilities and/or faculty/staff with a university or college. See Table C.23 in Appendix C for a list of affiliated research institutes.

Agency—A department, agency, or instrumentality of the U.S. government (see 31 USC 101). The federal agencies featured in this report include the Department of Defense (DOD), the Department of Health and Human Services (HHS), the Department of Energy (DOE), the Department of Agriculture (USDA), the National Aeronautics and Space Administration (NASA), and the National Science Foundation (NSF), which collectively controlled 95 percent of all federal funds devoted to the conduct of R&D in FY 2002.

Applied Research—Systematic study to gain knowledge or understanding necessary to determine the means of a recognized and specific need (see OMB Circular A-11, Section 84). See *Conduct of Research and Development*.

Award—A contract, grant, cooperative agreement, or other legal instrument a federal agency uses to engage the services of a nongovernmental entity to carry out a governmental responsibility or to achieve some purpose.

Basic Research—Systematic study directed toward fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind (see OMB Circular A-11, Section 84). See *Conduct of Research and Development*.

Baseline—All funds reported to the Office of Management and Budget (OMB) as being spent on activities that meet the OMB definition of what constitutes R&D and which therefore fall within the federal R&D portfolio.

Budget Authority—Authority provided by law to incur (i.e., enter into) financial obligations that will result in immediate or future outlays of federal government funds (see Budget of the United States Government, Analytical Perspectives, Fiscal Year 2002; and see OMB Circular A-11, Section 20).

College—A postsecondary school that offers general or liberal arts education, usually leading to an associate, bachelor's, master's, doctor's, or first professional degree. Although this term usually encompasses junior colleges and community colleges,

this report does not include junior colleges, community colleges, technical schools, or schools granting only associate degrees (see National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003). See *University*.

Conduct of Research and Development—Systematic creative work undertaken to increase the stock of knowledge, including knowledge of man, culture, and society, and the use of this stock of knowledge to devise new applications. Includes Basic Research, Applied Research, and Development and the administrative expenses associated with each. Excludes research and development facilities and equipment. Also excludes routine product testing, quality control, mapping, collection of general-purpose statistics, experimental production, routine monitoring and evaluation of an operational program, and the training of scientific and technical personnel (see OMB Circular A-11, Section 84). See *Basic Research, Applied Research, and Development*.

Contract—A legal instrument reflecting a relationship between the U.S. government and a state, local government, or other recipient (1) when the principal purpose of the instrument is to acquire (by purchase, lease, or barter) property or services for the direct benefit or use of the U.S. government or (2) when the agency decides in a specific instance that the use of a procurement contract is appropriate (see 31 USC 6303).

Cooperative Agreement—A legal instrument reflecting a relationship between the U.S. government and a state, local government, or other recipient (1) when the principal purpose of the relationship is to transfer a thing of value to the state, local government, or other recipient to carry out a public purpose of support or stimulation authorized by a law of the United States instead of acquiring (by purchase, lease, or barter) property or services for the direct benefit or use of the U.S. government and (2) when substantial involvement is expected between the executive agency and the state, local government, or other recipient when carrying out the activity contemplated in the agreement (see 31 USC 6305). Does not include cooperative research and development agreements. See *Cooperative Research and Development Agreement*.

Cooperative Research and Development Agreement (CRADA)—Any agreement between one or more federal laboratories and one or more nonfederal parties under which the government, through its laboratories, provides personnel, services, facilities, equipment, intellectual property, or other resources with or without reimbursement (but not funds to nonfederal parties) and the nonfederal parties provide funds, personnel, services, facilities, equipment, intellectual property, or other resources toward the conduct of specified research or development efforts which are consistent with the missions of the laboratory; except that such term does not include a procurement contract or cooperative agreement as those terms are used in sections 6303, 6304, and 6305 of Title 31 (see 15 USC 3710a). NOTE: This report does not provide information on CRADAs, and we provide this definition solely to enable readers to understand the differences between CRADAs and cooperative agreements.

Development—The systematic application of knowledge or understanding, directed toward the production of useful materials, devices, and systems or methods, including design, development, and improvement of prototypes and new processes to meet

specific requirements (see OMB Circular A-11, Section 84). See *Conduct of Research and Development*.

Discretionary Spending—Budgetary resources provided in appropriation acts, except those provided to fund mandatory spending programs (i.e., entitlements and food stamps) (see OMB Circular A-11, Section 20).

Enrollment—The total number of students registered in a given school unit at a given time, generally in the fall of a year (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

Experimental Program to Stimulate Competitive Research (EPSCoR)—A program Congress established in 1978 and placed under the auspices of the National Science Foundation (NSF) to assist states that have historically received fewer federal R&D funds. The objective is to increase the ability of academic institutions in these states to compete for such funds and thereby to develop the science and technology resources in the states that support the creation of economic opportunities (i.e., businesses and jobs) for their citizens. To participate in EPSCoR, states must be willing to provide at least partial funding for all approved projects so that the endeavor is a true partnership with the federal government. In 2002, 22 states (Alabama, Alaska, Arkansas, Delaware, Hawaii, Idaho, Kansas, Kentucky, Louisiana, Maine, Mississippi, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, South Carolina, South Dakota, Vermont, West Virginia, and Wyoming), the Commonwealth of Puerto Rico, and the U.S. Virgin Islands participated in NSF’s EPSCoR program. (Note that the U.S. Virgin Islands was not in the earlier analysis, reported on in *Discovery and Innovation: Federal Research and Development Activities in the Fifty States, District of Columbia, and Puerto Rico*, MR-1194-OSTP/NSF, RAND Corporation, 2000, and therefore is not included in this report.) In 2003, Delaware and Tennessee also joined the program. Also note that, in recent years, other federal agencies (i.e., DOD, DOE, USDA, HHS, NASA, and EPA) have begun similar programs based on the EPSCoR concept.

Expenditure—“A disbursement of funds” (*Merriam Webster’s Collegiate Dictionary*, 10th ed., 1993). NSF defines *expenditures* as “funds actually spent by an institution during its fiscal year” (National Science Foundation, Division of Science Resources Statistics, “Academic Research and Development Expenditures: Fiscal Year 2001,” Arlington, VA [NSF 03-316], April 2003). See *Outlay*.

Faculty—Members of the instruction and/or research staff who are employed full or part time, as defined by the institution (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

Federally Funded Research and Development Center (FFRDC)—An FFRDC meets some special long-term research or development need that cannot be met as effectively by existing in-house or contractor resources. FFRDCs enable agencies to use private-sector resources to accomplish tasks that are integral to the mission and operation of the sponsoring agency. To discharge its responsibilities to the sponsoring agency, an FFRDC has access, beyond what is common in a normal contractual relationship, to government and supplier data, including sensitive and proprietary data,

and to employees and facilities. An FFRDC is required to conduct its business in a manner befitting its special relationship with the government, to operate in the public interest with objectivity and independence, to be free from organizational conflicts of interest, and to have full disclosure of its affairs to the sponsoring agency. It is not the government's intent that an FFRDC use its privileged information or access to facilities to compete with the private sector. However, an FFRDC may perform work other than that for the sponsoring agency under the Economy Act, or other applicable legislation, when the work is not otherwise available from the private sector. Each of the 36 FFRDCs the federal government currently sponsors is administered (i.e., operated) by an industrial firm, university, or nonprofit institution (see Federal Acquisition Regulations [FAR] 35.017).

First Professional Degree Student—A student pursuing an award that requires completion of a program that meets all the following criteria:

- The academic requirements must be completed to begin practice in the profession,
- At least two years of college work must be completed before entering the program, and
- Program completion requires a total of at least six academic years of college work, including both prior required college work and the length of the professional program itself.

First professional degrees may be awarded in the following ten fields: chiropractic (DC or DCM), osteopathic medicine (DO), dentistry (DDS or DMD), pharmacy (PharmD), law (LLB or JD), podiatry (DPM, DP, or PodD), medicine (MD), theology (MDiv, MHL, BD, or Ordination), optometry (OD), and veterinary medicine (DVM) (see U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System [IPEDS], Fall 2000). Does not include graduate students. See *Graduate Student*.

Fiscal Year—The federal government's accounting period. It begins on October 1 and ends on September 30 and is designated by the calendar year in which it ends (see OMB Circular A-11, Section 20).

Formula Grant—Allocation of money to states or their subdivisions according to a formula prescribed by law or administrative regulation, for continuing activities that are not confined to a specific project (see Catalog of Federal Domestic Assistance, GSA, 2002). See *Grant*. Note that, for the purposes of this report, all grants awarded under Catalog of Federal Domestic Assistance (CFDA) Program 10.216 were treated as formula grants instead of project grants because only 18 institutions of higher education in the nation were eligible to receive federal R&D grant funds under this program, and these were the same 18 institutions that received substantially larger formula grants each year under the closely related CFDA Program 10.205.

Graduate Student—A student who holds a bachelor's or first professional degree, or the equivalent, and who is working toward a master's or doctor's degree. Does not include first professional degree students (U.S. Department of Education, National

Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003). See *First Professional Degree Student*.

Grant—A legal instrument reflecting a relationship between the U.S. government and a state, local government, or other recipient (1) when the principal purpose of the relationship is to transfer a thing of value to the state or local government or other recipient to carry out a public purpose of support or stimulation authorized by a law of the United States instead of acquiring (by purchase, lease, or barter) property or services for the direct benefit or use of the U.S. government and (2) when substantial involvement is not expected between the executive agency and the state, local government, or other recipient when carrying out the activity contemplated in the agreement (see 31 USC 6304). See *Project Grant* and *Formula Grant*.

Historically Black College or University (HBCU)—An accredited institution of higher education established prior to 1964 with the principal mission of educating black Americans. The Higher Education Act of 1965, as amended, defines an HBCU as “any historically black college or university that was established prior to 1964, whose principal mission was, and is, the education of black Americans. . . .” Federal regulations (see 20 USC 1061[2]) allow certain exceptions to the founding date (U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

Land-Grant University (includes 1890 Schools)—Established by the passage of the first Morrill Act of 1862, which facilitated the establishment of colleges through grants of land or of funds in lieu of land. The Morrill Act was intended to provide a broad segment of the population with a practical education that had direct relevance to their daily lives. 1890 Land-Grant Colleges and Universities and Tuskegee University are historically black land-grant colleges and universities (HBCUs) established through the Second Morrill Act of August 30, 1890, which expanded the system of land-grant universities to include historically black institutions in states in which segregation denied minorities access to the land-grant institution established by the First Morrill Act, in 1862. Through the Second Morrill Act and several other authorities, these institutions may receive federal funds for agricultural research, extension, and teaching (see United States Department of Agriculture Cooperative State Research, Education, and Extension Service Acronyms and Commonly Used Terms, 2003).

Medical School (note that this term *excludes* osteopathic, chiropractic, and podiatry schools when used in this report)—An institution offering a program of medical education leading to the MD degree. Virtually all state licensing boards require that U.S. medical schools be accredited by the Liaison Committee on Medical Education (LCME) as a condition for licensing their graduates to practice medicine within a state. Currently, the LCME accredits 126 programs at universities and colleges within the United States, all of which lead to the MD degree (see Liaison Committee on Medical Education, Directory of Accredited Medical Education Programs, available at <http://www.lcme.org/directry.htm> as of March 3, 2004). Note that the term *medical school*, as used in this report, does *not* encompass hospitals or medical centers (i.e., so-called “teaching” hospitals) that are in some way “affiliated with” or

“connected to” a university or college and/or its “medical school.” Instead, the term refers *only* to the 126 programs within universities and colleges that provide medical education leading to the MD degree.

Obligations—Binding agreements that will result in outlays (see *Outlay*) immediately or in the future. That is, the amounts of orders placed, contracts awarded, services received, and similar transactions during a given period that will require payments during the same or a future period. Budgetary resources must be available before obligations can be incurred legally (see Budget of the United States Government, Analytical Perspectives, Fiscal Years 2002; OMB Circular A-11, Section 20).

Outlay—A payment to liquidate an obligation (other than the repayment of debt principal). Outlays are generally equal to cash disbursements, and they are the measure of government spending (see Budget of the United States Government, Analytical Perspectives, Fiscal Years 2002; OMB Circular A-11, Section 20). See *Expenditure*.

Private University or College—A university or college that is controlled by an individual or agency other than a state, a subdivision of a state, or the federal government and that is usually supported primarily by other than public funds, and the operation of whose program rests with other than publicly elected or appointed officials. Private schools and institutions include both nonprofit and proprietary institutions (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

Project Grant—The funding, for fixed or known periods, of specific projects for the delivery of specific services or products without liability for damages for failure to perform (see Catalog of Federal Domestic Assistance, GSA, 2002). See *Grant*.

Public University or College—A university or college controlled and operated by publicly elected or appointed officials and deriving its primary support from public funds (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

Research and Development (R&D)—Throughout this report, this term refers *only* to the *Conduct of Research and Development*, as defined above.

Research and Development Equipment—The acquisition or design and production of major equipment for R&D. Includes expendable or movable equipment (e.g., spectrometers, research satellites, and detectors). Excludes routine purchases of ordinary office equipment or furniture and fixtures. (See OMB Circular A-11, Section 84.)

Research and Development Facilities—The construction and rehabilitation of R&D facilities. Includes the acquisition, design, and construction of, or major repairs or alterations to, all physical facilities for use in R&D activities. Facilities include land, buildings, and fixed capital equipment, regardless of whether the facilities are to be used by the government or by a private organization and regardless of where title to the property may rest. The term also includes the International Space Station and such fixed facilities as reactors, wind tunnels, and particle reactors, but excludes movable R&D equipment. (See OMB Circular A-11, Section 84.)

Science and Engineering—The disciplines in the fields of Engineering, Physical Sciences, Mathematical Sciences, Computer Sciences, Life Sciences, Psychology, and Social Sciences (see National Science Foundation, Division of Science Resources Statistics, “Survey of Graduate Students and Postdoctorates in Science and Engineering: Fall 2000 [Methodology Report],” Arlington, VA , July 2002).

Undergraduate Student—A student registered at an institution of higher education who is working in a program leading to a baccalaureate degree or other formal award below the baccalaureate, such as an associate degree (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003).

University—An institution of higher education consisting of a liberal arts college, a diverse graduate program, and usually two or more professional schools or faculties and empowered to confer degrees in various fields of study (see U.S. Department of Education, National Center for Education Statistics, “Digest of Education Statistics, 2002,” June 2003). See *College*.

BACKGROUND

Innovation based on scientific and technological progress makes major contributions to U.S. economic prosperity, national security, and other national goals. The system that supports such innovation consists of a complex network of institutions that conduct research and development (R&D) in a range of settings, including universities, industry, and government. Because of the success of this system, it has been accurately characterized as a vital national asset.¹ A hallmark of the U.S. innovation system, as distinct from such systems in other industrialized nations, is its heavy reliance on universities and colleges to conduct federally funded R&D. In Japan and Europe, for instance, specialized research institutes and government-operated laboratories carry out a much higher fraction of federal R&D than such institutions do in the United States,² where universities and colleges perform between 20 and 25 percent of it. Since World War II, a steady infusion of federal R&D funds has helped transform many U.S. universities into research-focused institutions. Indeed, in FY 2002, federal funds were paying for R&D being conducted at almost 800 of the nation's more than 1,825 university and college campuses.

Federal R&D funds contribute substantially to three important university functions. First, they enable universities and colleges to sustain R&D programs in scientific and engineering fields that might otherwise have difficulty securing financial support. This R&D expands the collective knowledge of the world and, at the same time, helps fulfill the basic missions of a number of federal agencies. Before World War II, the major sources of funding for university R&D were state governments, industry, and foundations. The federal entry into the funding of university R&D represented an admission that these sources were not stable enough to grow and sustain this vital component of the U.S. innovation system. In particular, it showed that the federal government, unlike industry, was willing to support the conduct of long-term, high-risk basic research at the nation's universities and colleges.

Second, federally funded R&D supports the education and training of graduate students in scientific and engineering fields, typically through research assistantships. Thus, universities and colleges not only expand the knowledge base, they also edu-

¹ Popper and Wagner, 2002, p. ix.

² Mowery and Rosenberg, 1993, p. 48.

cate the next generation of scientists and engineers, whose expertise will drive technological innovation.

Third, the federally funded R&D that universities and colleges perform contributes significantly to the economic benefits that can accrue to the cities, states, and regions in which the institutions are located. Universities that have medical schools—which the federal government supports heavily in nearly every case—are often the major employers in the cities where they are located. Such is the case in Ann Arbor, Baltimore, Cambridge, Madison, New Haven, and Vermilion. And universities and colleges that do not have medical schools are also the major employers in their home cities in many instances. Such is indeed the case in Ames, Boise, Boulder, College Station, Eugene, Knoxville, Lincoln, Princeton, and Provo, where the local universities and colleges—which, regardless of not having medical schools, still have sizable research communities funded in part by federal dollars—are the largest employers of the local population. Universities and colleges thus may constitute a major part of a city's or region's economic base.

Given the importance of federal R&D funds for advancing general knowledge, fulfilling federal missions, training future scientists and engineers, and ensuring the prosperity of universities and colleges and the economic settings in which they operate, it is important to assess and monitor the size and profile of the federal investment in this area. Although RAND conducted a preliminary study of this topic,³ federal policymakers, states, and the higher education community have still lacked the data to perform the needed analyses. In particular, they have lacked access to accurate, timely, consistent, and comprehensive spending information for federally funded university and college R&D.⁴

As the National Science Board (NSB) noted in 2001, “Available data and analyses are often ill-suited for informing budget allocation decisions that affect the U.S. research infrastructure.”⁵ Among the data problems the NSB report cited were a lack of timeliness and inconsistent definitions:

Data on federal research funding, especially at the field level, are often unavailable on a timely basis to inform budget allocation decisions, use outdated research field definitions, fail to capture important characteristics of research activities—particularly growing collaboration across fields, organizations, sectors, and even nations—and suffer from inconsistent applications of definitions across reporting units.⁶

Often, existing data on expenditures are collected via surveys, which may lump R&D spending in with other types of federal assistance (such as facilities or overhead reimbursements) and whose results may also be several years out of date by the time they are publicly released. Moreover, the inconsistent application of definitions,

³ Fossum et al., 2000.

⁴ Popper and Wagner (2002, p. 48) note that analysts' understanding of the U.S. innovation system has grown increasingly sophisticated in the past decade but has been hampered by weak or nonexistent data along many dimensions, including expenditures.

⁵ National Science Board, 2001, p. 2.

⁶ National Science Board, 2001, p. 19.

which is particularly apparent in the surveys of federal R&D funding of institutions of higher education, frustrates the planning efforts of universities and colleges and of governments.⁷

PURPOSE OF THIS REPORT

This report describes our effort to address these data issues through an analysis designed to provide a more solid foundation for assessing the federal investment in university-based R&D. As the basis for our analysis, we compiled a comprehensive list of all federally funded R&D activities at every university and college in the 50 states, the District of Columbia, and Puerto Rico (hereafter referred to collectively as “the states”) by drawing on RAND’s RaDiUS (Research and Development in the United States) database of federal R&D funding and activities. This report presents the results of this analysis, including data on

- State-by-state trends in the federal funding of R&D at the nation’s universities and colleges from FY 1996 through FY 2002,
- Which federal agencies provided what amounts and types of R&D funds to universities and colleges in FY 2002, and
- What levels of R&D funding individual universities and colleges received in FY 2002.

This report is intended to be a reference document for national, regional, state, and university decisionmakers and planners interested in assessing the relative competitiveness of particular university systems and individual campuses in obtaining federal R&D funds. It is also intended to be both a stimulus and a tool for further analysis and assessment of trends, priorities, and resource allocations in federally funded R&D.

METHODOLOGY AND APPROACH

All data presented in this report are from the RaDiUS database. RaDiUS systematically tracks all federal funds spent each year on the “conduct of R&D” by tracing them from their most aggregated level in the federal government to the performer level—i.e., the level at which the R&D is actually conducted. Neither the RaDiUS database nor this report contains any information on federal funds spent for the construction or rehabilitation of R&D facilities or for the design, production, and/or purchase of R&D equipment. Note that all references to federal R&D funds in this report denote *only* the federal dollars spent on the “conduct of R&D.”

Note also that the term *R&D* may not encompass some activities supported with federal funds that reasonable people might consider to be “research,” solely because the federal funds spent on these activities were not designated by an official of the federal government as being “R&D” dollars. In other words, a federal procurement

⁷ Davey and Rowberg, 2000, p. 14.

official determined that a specific federally funded project was an “assessment of a complex issue in support of policy development and decision making” (non-R&D) rather than a “systematic study of some topic that will increase scientific knowledge” (R&D). Consequently, the official formally categorized that project as “study and analysis” rather than as “R&D.” This difference in how a project is designated means that RaDiUS tracks federal dollars spent on projects designated as “R&D” but does not track those spent on projects designated as “study and analysis.” And, finally, note that the term *R&D*, as used by the federal government, is not synonymous with *science and technology (S&T)*. For additional information on the terms *R&D* and *S&T*, as well as on RaDiUS and the data that RaDiUS does and does not include, see Appendix A.

The most-aggregated data we present in this report are for FY 1996 through FY 2002; the most-detailed data are from FY 2002 only, which is the most recent fiscal year for which this information is available. To facilitate much of the analysis that is central to this report, we identified all the individual R&D awards that went to the 126 accredited medical schools located within the nation's universities and colleges. We also excluded federal funds going to universities for the management and operation of federally funded R&D centers (FFRDCs). While we would have preferred to distinguish between federal R&D awards going to universities and colleges that were and were not congressionally earmarked, such a distinction was not possible. As a result, we did not separately analyze the portion of federal R&D funds that were congressionally earmarked in FY 2002 that went to universities and colleges for the conduct of R&D, which is estimated to be between 6 and 7 percent of the total R&D funds going to universities and colleges (see Appendix B). Instead, these funds are mixed in with the grants that were awarded based on merit or formulas.

All funding amounts that we present for states and individual universities and colleges are “obligations.” They show the total dollars that the federal government has agreed in a specific fiscal year to provide to a university or college to cover the costs of R&D work that will be performed by the university or college in that fiscal year *or* in some future fiscal year. The federal government records all of its transactions that result in monetary awards to third parties (e.g., universities and colleges) only as “obligations”; hence, this was the only unit of measure available for our analysis. Please note that “obligations” are not the same as “outlays” or “expenditures,” the latter of which involve the disbursement of funds for use in the current fiscal year only, as opposed to some future fiscal year as well. This distinction is important, because an obligation of funds by the federal government to a university or college for an unusually long-term or extraordinarily large R&D project can have a notable effect on the total amount of federal R&D funds credited to a single institution in a given fiscal year. Such awards are not common, however, so the amount of federal R&D funds going to specific universities and colleges customarily trends more evenly from one fiscal year to the next. In FY 2002, however, the Applied Physics Laboratory at Johns Hopkins University received incremental funding on two such uncommon federal R&D awards, which together totaled \$330 million. While these two awards had a noticeable effect on the total dollars Johns Hopkins received, they did not affect its number-one ranking among the nation's universities and colleges that received federal R&D funds. These two awards were so large, however, that they af-

affected the overall state ranking of Maryland, the home of Johns Hopkins, when all federal R&D funds going to the universities and colleges resident in each state were totaled. Specifically, Maryland rose from sixth place among the states in FY 2001 to fourth place in FY 2002, “leapfrogging” over both Texas and Massachusetts (see Tables 2.1 and 2.2 in Chapter 2). Had Johns Hopkins not received the incremental funding on these two awards in FY 2002, Maryland would have kept its FY 2001 ranking, remaining sixth among the states in FY 2002.

Appendix B provides additional details on the methodology of our analysis.

HOW THIS REPORT IS ORGANIZED

Chapter Two presents an overview of our findings, drawn from the tables of four-year accredited U.S. universities and colleges in Appendix D. These tables, one for each state, show the amount of federal R&D funds that each university and college received from the federal government in FY 2002, data drawn from the RaDiUS database. (The tables are presented on a CD-ROM attached to the back cover of this report.) Appendix D also provides the size of each college and university’s student body and faculty, as well as the federal R&D funds per capita that each institution received. Information on the degrees each institution awards and whether the institution is public, private, land grant, and/or historically black is also given. Descriptions of the sources for all the data in the tables are provided at the very beginning of the appendix. Information for FY 1996 through FY 2001 is based on data extracted directly from the RaDiUS database.

Chapter Three presents our main conclusions and explores the implications of this analysis for future discussions. Following Chapter Three are four appendices that add detail to the analysis and findings discussed throughout the text. Appendix A describes the RaDiUS database; Appendix B discusses in detail the methodology we used in the analysis. Appendix C presents a number of tables containing additional details on the universities and colleges that received the most federal R&D funds in FY 2002 (the tables are presented on the attached CD-ROM). And, as noted above, Appendix D details the federal R&D funds that every four-year accredited university and college in the nation received in FY 2002.

FEDERAL R&D FUNDS TO UNIVERSITIES AND COLLEGES

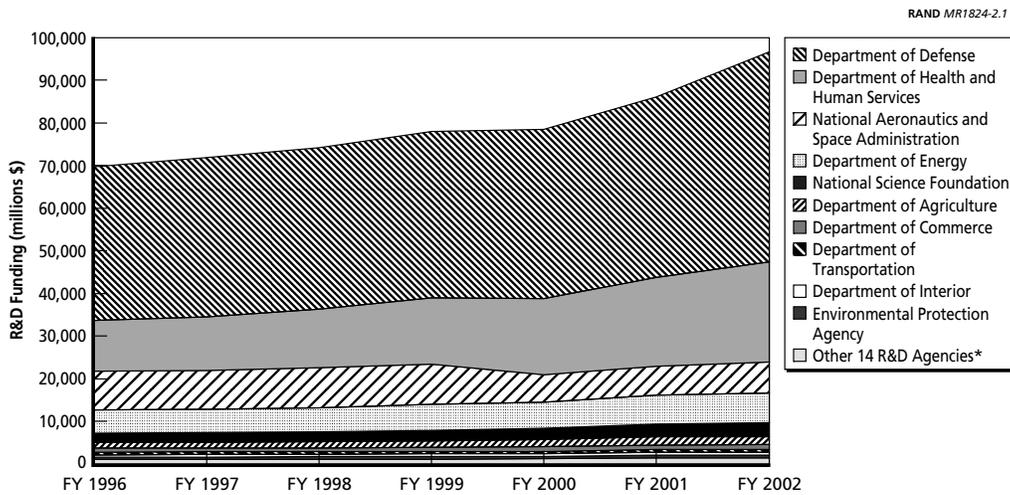
OVERALL TRENDS

In recent years, the annual funding that the federal government provides to universities and colleges for R&D has grown disproportionately compared with the growth in both total federal discretionary and total federal R&D funding. Specifically, in the seven-year period from FY 1996 through FY 2002:

- Total federal discretionary funds grew from \$501.0 billion to \$734.7 billion, for an increase of 46.7 percent in current dollars and an increase of 27.9 percent in constant 1996 dollars (President's Budget 2004).
- Total federal R&D funds grew from \$69.7 billion to \$96.6 billion, for an increase of 38.6 percent in current dollars and an increase of 20.9 percent in constant 1996 dollars (RaDiUS).
- Total federal R&D funds going to universities and colleges grew from \$12.8 billion to \$21.4 billion, after a slight dip in FY 1997, for an overall increase of 67.2 percent in current dollars and an overall increase of 45.7 percent in constant 1996 dollars (RaDiUS).

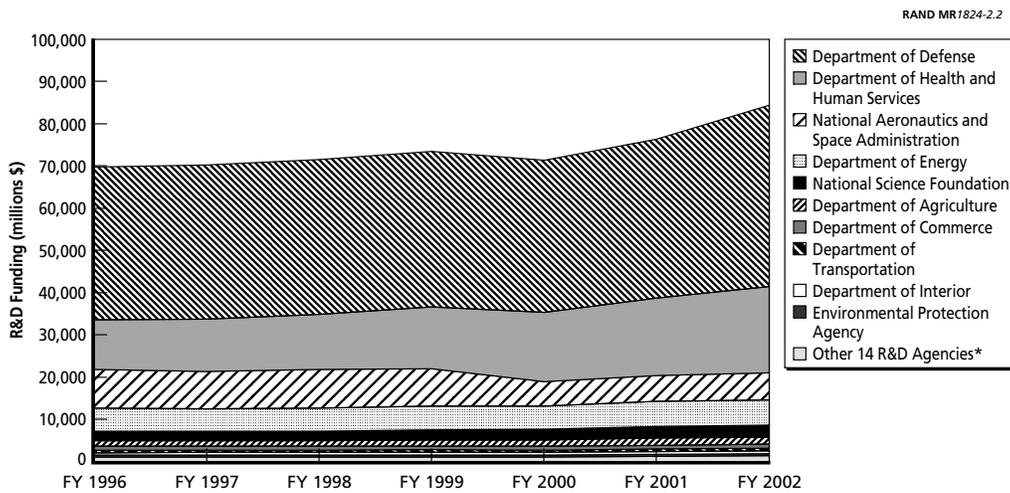
In short, between FY 1996 and FY 2002, the average annual increase in "total federal R&D funds" was only 5.7 percent in current dollars and 3.3 percent in constant 1996 dollars, while the average annual increase in the "federal R&D funds going to universities and colleges" was 9.0 percent in current dollars and 6.6 percent in constant 1996 dollars, indicating that, in recent years, an ever greater share of federal R&D funds has been going to the nation's universities and colleges.

As Figures 2.1 and 2.2 show, between FY 1996 and FY 2002, the R&D funds grew for all but one major federal R&D agency, the National Aeronautics and Space Administration (NASA). In FY 2000, NASA decided to change the budgetary status of the Space Station program, thereby removing the funds for that program from the "conduct of R&D" category and thus causing NASA's R&D total to drop. The agency whose R&D funding levels increased the most was the Department of Health and Human Services (HHS), the home of the National Institutes of Health. Between FY 1996 and FY 2002, the R&D funds controlled by HHS more than doubled, which has led to HHS now controlling almost 25 percent of all federal dollars devoted to the conduct of R&D. Since HHS awards around 90 percent of these R&D funds to extramural (i.e.,



*Altogether, these agencies received less than \$400M in each fiscal year between 1996 and 2002.

Figure 2.1—Total Funding in Current Dollars for Conduct of R&D in FY 1996–2002, by Federal Agency (Budget Authority in Millions)



*Altogether, these agencies received less than \$400M in each fiscal year between 1996 and 2002.

Figure 2.2—Total Funding in Constant 1996 Dollars for Conduct of R&D in FY 1996–2002, by Federal Agency (Budget Authority in Millions)

nonfederal) performers each year and gives nearly 75 percent of all of its extramural R&D funds to the nation's universities and colleges annually, this increase has had a major influence on the amount of R&D funds available to U.S. universities and colleges. Many other federal agencies also provide R&D funds to the nation's universities and colleges, but HHS has been the driving force in this area for the past several years.

Tables 2.1 and 2.2 show that, between FY 1996 and FY 2002,

- The total federal R&D funds going to universities and colleges increased by 67 percent in current dollars and 46 percent in constant 1996 dollars.
- At least one university or college in every state received federal R&D funds.
- The relative ranking of the states according to how much federal R&D funding their resident universities and colleges received changed little, with almost 80 percent shifting no more than two places in the overall rankings between these years.
- In each fiscal year, over 55 percent of all federal R&D funds awarded to the nation's universities and colleges went to institutions in only nine states: California, Illinois, Maryland, Massachusetts, Michigan, New York, North Carolina, Pennsylvania, and Texas. These were the only states to rank in the top ten in all seven fiscal years.

Table 2.1

Federal Funds in Current Dollars Provided to Universities and Colleges, Including Medical Schools, for Conduct of R&D in FY 1996–2002, by State in Rank Order (Obligations in Millions)

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
Total	12,773	12,667	14,456	15,890	17,537	19,115	21,352
Rank							
1	CA 1,754	CA 1,747	CA 2,011	CA 2,108	CA 2,371	CA 2,505	CA 2,726
2	NY 1,059	NY 1,093	NY 1,213	NY 1,326	NY 1,451	NY 1,562	NY 1,670
3	MA 873	MA 834	MD 979	MA 1,108	MA 1,130	PA 1,163	PA 1,327
4	MD 791	PA 767	MA 938	MD 1,054	MD 1,101	TX 1,130	MD 1,303
5	PA 754	MD 725	PA 904	PA 1,006	PA 1,094	MA 1,096	TX 1,256
6	TX 698	TX 685	TX 775	TX 867	TX 959	MD 1,034	MA 1,196
7	IL 542	NC 501	NC 560	IL 642	IL 664	IL 760	NC 858
8	NC 501	IL 492	IL 555	NC 566	NC 652	NC 744	IL 818
9	MI 417	MI 423	MI 469	MI 507	MI 551	MI 611	MI 659
10	WA 359	WA 362	WA 391	WA 437	OH 466	WA 543	OH 588
11	OH 336	OH 336	OH 367	MO 417	WA 466	OH 525	WA 577
12	MN 273	MN 282	FL 332	OH 407	FL 425	FL 448	MO 519
13	GA 263	CO 278	CO 318	FL 335	MO 403	MO 445	FL 491
14	WI 261	GA 271	GA 316	CO 335	GA 384	GA 420	GA 489
15	MO 260	FL 268	MO 308	GA 325	CO 369	WI 410	WI 468
16	CO 259	MO 268	MN 296	MN 320	WI 368	MN 409	MN 465
17	CT 255	CT 262	WI 281	CT 318	MN 360	CO 408	CO 434
18	FL 254	WI 253	CT 277	WI 317	CT 346	CT 367	CT 414
19	AL 240	AL 244	AL 271	AL 269	AL 306	VA 356	AL 388
20	NJ 205	VA 207	VA 234	VA 262	VA 292	AL 347	VA 386
21	VA 204	NJ 203	NJ 228	NJ 233	NJ 285	TN 288	TN 383
22	IN 198	IN 199	IN 201	IN 216	IN 254	OR 279	NJ 314
23	OR 157	OR 170	OR 183	OR 216	OR 231	NJ 271	OR 288
24	AZ 157	TN 154	AZ 175	AZ 199	AZ 220	IN 262	IN 285
25	TN 146	AZ 146	IA 164	TN 186	TN 218	IA 224	AZ 250
26	DC 142	IA 139	TN 157	IA 172	IA 179	AZ 218	IA 246
27	IA 141	DC 131	UT 151	UT 161	UT 167	DC 194	DC 216
28	LA 134	UT 130	DC 135	DC 154	DC 155	UT 189	UT 215
29	UT 130	LA 120	LA 129	LA 142	LA 147	LA 162	LA 180
30	NM 95	SC 90	SC 111	SC 109	SC 123	SC 146	SC 167

Table 2.1 (continued)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002	
Rank														
31	SC	80	NM	82	NM	91	NM	103	KY	114	NM	140	KY	150
32	KY	73	RI	71	KS	85	KY	91	NH	109	KY	134	NH	138
33	NH	70	KY	67	KY	75	KS	91	NM	104	KS	131	HI	134
34	RI	70	NH	64	NH	71	NH	88	KS	101	NH	119	NM	133
35	HI	62	KS	63	MS	69	MS	83	MS	96	HI	109	MS	125
36	KS	61	HI	61	OK	69	RI	79	RI	95	MS	105	KS	119
37	OK	51	OK	54	RI	65	HI	77	HI	86	OK	87	OK	119
38	MS	50	MS	49	HI	64	OK	68	OK	81	RI	87	RI	104
39	WV	45	WV	41	PR	48	PR	53	NE	68	NE	82	NE	99
40	NE	44	NE	40	NE	48	NE	53	PR	64	VT	70	PR	89
41	AR	38	PR	39	WV	44	AR	49	AR	62	AR	66	VT	74
42	PR	38	AR	38	AR	43	VT	47	VT	60	AK	64	WV	71
43	NV	38	VT	35	VT	41	MT	44	DE	52	MT	63	AR	69
44	VT	36	NV	35	NV	39	AK	42	NV	49	PR	63	NV	60
45	DE	33	DE	29	DE	35	DE	40	AK	49	NV	57	AK	58
46	ND	31	AK	27	MT	33	WV	38	WV	46	WV	57	MT	56
47	MT	26	MT	26	AK	28	NV	36	MT	44	DE	45	DE	48
48	AK	23	ND	19	ND	25	ND	30	ND	33	ND	33	ND	41
49	WY	17	ID	14	ME	18	ME	20	ID	26	ID	28	ID	34
50	ID	12	ME	14	WY	17	ID	17	WY	21	ME	24	ME	20
51	ME	10	WY	11	ID	14	WY	15	SD	20	WY	19	WY	18
52	SD	8	SD	9	SD	10	SD	10	ME	20	SD	17	SD	17

NOTE: See Table C.1 in Appendix C for more detailed information.

Table 2.2

Federal Funds in Constant 1996 Dollars Provided to Universities and Colleges, Including Medical Schools, for Conduct of R&D in FY 1996–2002, by State in Rank Order (Obligations in Millions)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002	
Total	12,773 12,388 13,922 14,936 15,976 16,936 18,616													
Rank														
1	CA	1,754	CA	1,708	CA	1,937	CA	1,982	CA	2,160	CA	2,219	CA	2,377
2	NY	1,059	NY	1,069	NY	1,168	NY	1,246	NY	1,322	NY	1,384	NY	1,456
3	MA	873	MA	816	MD	943	MA	1,042	MA	1,029	PA	1,030	PA	1,157
4	MD	791	PA	751	MA	904	MD	990	MD	1,003	TX	1,001	MD	1,136
5	PA	754	MD	709	PA	871	PA	946	PA	997	MA	971	TX	1,095
6	TX	698	TX	670	TX	746	TX	815	TX	874	MD	916	MA	1,043
7	IL	542	NC	490	NC	540	IL	603	IL	605	IL	674	NC	748
8	NC	501	IL	481	IL	534	NC	532	NC	594	NC	659	IL	713
9	MI	417	MI	413	MI	451	MI	477	MI	502	MI	542	MI	574
10	WA	359	WA	354	WA	376	WA	411	OH	425	WA	481	OH	512
11	OH	336	OH	328	OH	353	MO	392	WA	424	OH	465	WA	503
12	MN	273	MN	276	FL	320	OH	383	FL	387	FL	397	MO	453
13	GA	263	CO	272	CO	306	FL	315	MO	367	MO	394	FL	428
14	WI	261	GA	265	GA	305	CO	315	GA	350	GA	372	GA	426
15	MO	260	FL	262	MO	296	GA	306	CO	336	WI	363	WI	408
16	CO	259	MO	262	MN	285	MN	301	WI	335	MN	362	MN	405
17	CT	255	CT	256	WI	271	CT	299	MN	328	CO	361	CO	378
18	FL	254	WI	248	CT	267	WI	298	CT	315	CT	325	CT	361
19	AL	240	AL	238	AL	261	AL	253	AL	279	VA	316	AL	338
20	NJ	205	VA	202	VA	225	VA	247	VA	266	AL	307	VA	337
21	VA	204	NJ	199	NJ	219	NJ	219	NJ	260	TN	255	TN	334
22	IN	198	IN	194	IN	194	IN	203	IN	231	OR	248	NJ	274

Table 2.2 (continued)

	FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002	
Rank														
23	OR	157	OR	166	OR	176	OR	203	OR	211	NJ	240	OR	251
24	AZ	157	TN	151	AZ	169	AZ	187	AZ	200	IN	232	IN	249
25	TN	146	AZ	143	IA	158	TN	175	TN	199	IA	199	AZ	218
26	DC	142	IA	136	TN	151	IA	162	IA	163	AZ	193	IA	215
27	IA	141	DC	128	UT	145	UT	152	UT	152	DC	172	DC	189
28	LA	134	UT	127	DC	130	DC	145	DC	141	UT	168	UT	188
29	UT	130	LA	118	LA	124	LA	134	LA	134	LA	143	LA	157
30	NM	95	SC	88	SC	107	SC	102	SC	112	SC	129	SC	146
31	SC	80	NM	80	NM	87	NM	97	KY	104	NM	124	KY	131
32	KY	73	RI	69	KS	82	KY	85	NH	99	KY	119	NH	120
33	NH	70	KY	65	KY	72	KS	85	NM	95	KS	116	HI	117
34	RI	70	NH	63	NH	68	NH	83	KS	92	NH	105	NM	116
35	HI	62	KS	62	MS	66	MS	78	MS	87	HI	97	MS	109
36	KS	61	HI	60	OK	66	RI	74	RI	86	MS	93	KS	104
37	OK	51	OK	53	RI	63	HI	72	HI	79	OK	77	OK	103
38	MS	50	MS	48	HI	62	OK	64	OK	74	RI	77	RI	91
39	WV	45	WV	40	PR	46	PR	50	NE	62	NE	72	NE	86
40	NE	44	NE	39	NE	46	NE	50	PR	58	VT	62	PR	77
41	AR	38	PR	38	WV	43	AR	46	AR	56	AR	58	VT	65
42	PR	38	AR	37	AR	41	VT	44	VT	55	AK	57	WV	62
43	NV	38	VT	35	VT	39	MT	41	DE	47	MT	56	AR	60
44	VT	36	NV	35	NV	37	AK	39	NV	45	PR	56	NV	53
45	DE	33	DE	28	DE	34	DE	38	AK	44	NV	50	AK	50
46	ND	31	AK	26	MT	32	WV	36	WV	42	WV	50	MT	49
47	MT	26	MT	26	AK	27	NV	34	MT	40	DE	40	DE	42
48	AK	23	ND	19	ND	24	ND	28	ND	30	ND	29	ND	35
49	WY	17	ID	14	ME	17	ME	19	ID	24	ID	25	ID	30
50	ID	12	ME	13	WY	17	ID	16	WY	19	ME	22	ME	18
51	ME	10	WY	10	ID	13	WY	14	SD	18	WY	17	WY	16
52	SD	8	SD	9	SD	10	SD	9	ME	18	SD	15	SD	15

NOTE: See Table C.1 in Appendix C for more detailed information.

The two states in the top ranks whose overall position shifted the most from year to year between FY 1996 and FY 2002—Maryland and Massachusetts—are home to the three largest nonprofit research institutes in the nation that are closely affiliated with a university or college. (See Table C.23 in Appendix C for a complete list of affiliated research institutes.) Specifically, Johns Hopkins University, in Maryland, is home to the Applied Physics Laboratory, which received 33 percent of all federal R&D funds awarded to the university in FY 2001 and 42 percent in FY 2002. The Massachusetts Institute of Technology is home to the Whitehead Institute for Biomedical Research and the Woods Hole Oceanographic Institute (MIT/WHOI Joint Program), which collectively received 37 percent of all federal R&D funds awarded to the university in FY 2001 and 34 percent in FY 2002.

As noted previously, because the amount of federal R&D funds these affiliated research institutes receive tends to vary somewhat from year to year, a single R&D award from a federal agency to one of them can greatly affect the overall ranking of its host state. Such was indeed the case for Maryland in FY 2002, when the Applied Physics Laboratory received incremental funding on a pair of federal R&D contracts that totaled \$330 million, which raised Maryland from sixth place among the states in FY 2001 to fourth place in FY 2002. Note, however, that the federal R&D funds these

affiliated research institutes received had little, if any, effect on the rankings of their host institutions within a state, because each of them was part of the university that ranked number one, by a large margin, in its respective state. See Appendix D for details on the federal R&D funds going to Johns Hopkins University, the Massachusetts Institute of Technology, and the other institutions of higher education in Maryland and Massachusetts in FY 2002.

THE ROLE OF MEDICAL SCHOOLS

The most significant finding of this analysis is that, of all federal R&D funds that went to the nation's universities and colleges, 42 percent in FY 2001 and 45 percent in FY 2002 went directly to medical schools—academic units present at only a small fraction of the nation's many hundreds of universities and colleges. In light of this discovery, it is not surprising to find that the top ten states in the overall rankings in FY 2002 (see Tables 2.1 and 2.2) are home to 48 percent of the nation's medical schools, and the top 20 states are home to 86 percent of the nation's medical schools. In short, the presence of one or more medical schools at the universities and colleges in a state profoundly affects the amount of federal R&D funds that state's resident universities and colleges receive.

Because some states have *no* medical schools and others have *many*, one way of examining the success of a state's universities and colleges in obtaining federal R&D funds is to exclude the federal R&D funds going to medical schools. This provides a more balanced view of the relative rankings among the states for areas of R&D outside the scope of the medical-based life sciences.

Table 2.3 shows how the states rank in terms of federal R&D funds their universities and colleges received in FY 2002 when the funding that went to medical schools is included and excluded. One set of columns shows the state rankings when the medical school data were included in the analysis, and one set shows the rankings when they were not included. The column on the far right shows how removing the federal R&D dollars going to medical schools affected the rankings. For most states, the removal improved their overall ranking a bit. For 16 states, however, it decreased their overall ranking, indicating that their in-state university-based, federally supported R&D enterprises were dominated by the R&D conducted at their institutions' medical schools. This is particularly the case for the states of Connecticut, Missouri, and Vermont, all of which dropped at least nine places in the rankings when the funds going to medical schools were eliminated.

HOW R&D SUPPORT VARIES BY FEDERAL AGENCY

Twenty-four separate agencies fund all of the federal government's R&D activities. However, 96 percent of federal R&D funds going to the nation's colleges and universities come from only six of these agencies.

Table 2.3

**States Ranked According to Total Federal Funds Received for Conduct of R&D in FY 2002 by
Their Resident Universities and Colleges, Including and Excluding Medical Schools
(Obligations in Millions)**

Including Medical Schools			Excluding Medical Schools			Change in Rank of State
Total		21,352	Total		11,741	
Rank	State	Amount	Rank	State	Amount	
1	California	2,726	1	California	1,578	0
2	New York	1,670	2	Maryland	843	2
3	Pennsylvania	1,327	3	Massachusetts	826	3
4	Maryland	1,303	4	New York	719	-2
5	Texas	1,256	5	Pennsylvania	603	-2
6	Massachusetts	1,196	6	Texas	572	-1
7	North Carolina	858	7	Illinois	452	1
8	Illinois	818	8	Michigan	382	1
9	Michigan	659	9	North Carolina	336	-2
10	Ohio	588	10	Washington	326	1
11	Washington	577	11	Florida	321	2
12	Missouri	519	12	Georgia	292	2
13	Florida	491	13	Wisconsin	276	2
14	Georgia	489	14	Colorado	275	3
15	Wisconsin	468	15	Ohio	273	-5
16	Minnesota	465	16	Alabama ^a	217	3
17	Colorado	434	17	Virginia	214	3
18	Connecticut	414	18	New Jersey	210	4
19	Alabama ^a	388	19	Minnesota	198	-3
20	Virginia	386	20	Indiana	197	4
21	Tennessee	383	21	Arizona	185	4
22	New Jersey	314	22	Oregon	169	1
23	Oregon	288	23	Missouri	163	-11
24	Indiana	285	24	Tennessee	149	-3
25	Arizona	250	25	District of Columbia	135	2
26	Iowa	246	26	Iowa	126	0
27	District of Columbia	216	27	Louisiana ^a	124	2
28	Utah	215	28	Hawaii	124	5
29	Louisiana ^a	180	29	Utah	121	-1
30	South Carolina ^a	167	30	Connecticut	115	-12
31	Kentucky ^a	150	31	Mississippi ^a	111	4
32	New Hampshire	138	32	New Mexico ^a	99	2
33	Hawaii	134	33	Oklahoma ^a	86	4
34	New Mexico ^a	133	34	Kansas ^a	83	2
35	Mississippi ^a	125	35	South Carolina ^a	79	-5
36	Kansas ^a	119	36	New Hampshire	77	-4
37	Oklahoma ^a	119	37	Rhode Island	69	1
38	Rhode Island	104	38	Kentucky ^a	68	-7
39	Nebraska ^a	99	39	Nebraska ^a	67	0
40	Puerto Rico ^a	89	40	West Virginia ^a	58	2
41	Vermont ^a	74	41	Alaska ^a	58	4
42	West Virginia ^a	71	42	Montana ^a	56	4
43	Arkansas ^a	69	43	Nevada	49	1
44	Nevada	60	44	Puerto Rico ^a	48	-4
45	Alaska ^a	58	45	Delaware	48	2

Table 2.3 (continued)

Including Medical Schools			Excluding Medical Schools			Change in Rank of State
Total		21,352	Total		11,741	
Rank	State	Amount	Rank	State	Amount	
46	Montana ^a	56	46	Idaho ^a	34	3
47	Delaware	48	47	North Dakota ^a	33	1
48	North Dakota ^a	41	48	Arkansas ^a	29	-5
49	Idaho ^a	34	49	Maine ^a	20	1
50	Maine ^a	20	50	Vermont ^a	19	-9
51	Wyoming ^a	18	51	Wyoming ^a	18	0
52	South Dakota ^a	17	52	South Dakota ^a	10	0

NOTE: See Table C.2 in Appendix C for more detailed information.

^aParticipant in NSF's EPSCoR program.

As Figure 2.3 shows, in FY 2002, HHS provided 67 percent of these funds, whereas the National Science Foundation (NSF) provided 11 percent, the Department of Defense (DOD) provided 7 percent, NASA provided 5 percent, the Department of Energy (DOE) provided 4 percent, and the Department of Agriculture (USDA) provided 3 percent. The remainder of the federal R&D funds going to the nation's universities and colleges in FY 2002 came from the departments of Commerce (DOC), Education (DED), Housing and Urban Development (HUD), Interior (DOI), Justice (DOJ), Labor (DOL), Transportation (DOT), and Veterans Affairs (DVA), as well as from the Environmental Protection Agency (EPA), the Nuclear Regulatory Commission (NRC), and

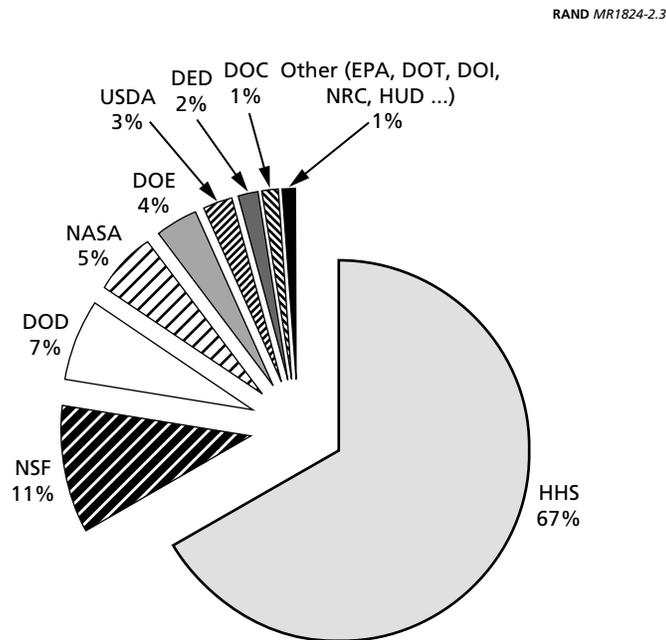


Figure 2.3—Funds Provided by Federal Agencies to Universities and Colleges for Conduct of R&D in FY 2002

the Social Security Administration (SSA). By far the largest of these “small providers,” as shown in Figure 2.3, were DOC (1 percent), DED (2 percent), DOI (0.2 percent), DOT (0.3 percent), and the EPA (0.6 percent).

Table 2.4 lists the federal R&D funds provided to universities and colleges by the individual agencies in FY 2002. Many of the same states that appear in the top ranks when all the federal R&D funds provided to universities and colleges in FY 2002 are examined (see Tables 2.1 and 2.2) are also in the top ranks of the recipients of R&D funds from one or more of the “major provider” agencies.

Indeed, as shown in Table 2.4, nine of the top ten states whose universities and colleges received the most R&D funds from HHS in FY 2002 were also among the top ten states in the overall ranking of federal R&D funds universities and colleges received in FY 2002. Only Ohio dropped out of the top ten states when the R&D funds HHS provided to universities and colleges in FY 2002 were considered alone, displaced by Missouri, which rose to tenth place in HHS’s ranking from twelfth place in the overall state ranking (see Tables 2.1 and 2.2).

The rankings of the top states changed a bit more for the other federal agencies that provided substantial R&D funds to universities and colleges. For example, Florida and Washington were among the top ten of those states whose universities and colleges received the most R&D funds from NSF in FY 2002, displacing North Carolina, and Ohio, which were in the overall top ten. Similarly, Florida was among the top ten whose universities and colleges received the most R&D funds from DOD in FY 2002, displacing Michigan, which was in the overall top ten. Alabama, Colorado, Florida, and Virginia were among the top ten of those states whose universities and colleges received the most R&D funds from NASA in FY 2002, displacing Illinois, Michigan, North Carolina, and Ohio, which were in the overall top ten. Florida, Georgia, and Wisconsin were among the top ten whose universities and colleges received the most R&D funds from DOE in FY 2002, displacing Maryland, North Carolina, and Ohio, which were in the overall top ten. And finally, Florida, Georgia, Iowa, and Mississippi were among the top ten whose universities and colleges received the most R&D funds from USDA in FY 2002, displacing Illinois, Maryland, Massachusetts, and Ohio, which were in the overall top ten. Only California, New York, Pennsylvania, and Texas made the top ten regardless of which federal agency’s R&D funding was examined. Indeed, California ranked first in every agency except DOD and NASA, where it ranked second.

In short, the universities and colleges in only four states (California, New York, Pennsylvania, and Texas) were successful in obtaining significant amounts of R&D funds from *all* the major federal R&D agencies. For most states, however, the success of their institutions of higher education in obtaining these funds from the six major federal R&D agencies varied widely for the different agencies. Indeed, the ranking of the average state’s universities and colleges varied by almost 20 places in terms of total R&D funds received in FY 2002 from each major federal R&D agency. That is, the institutions of higher education in most states appeared to “specialize” in conducting the R&D that only one or two of the major federal R&D agencies funded, rather than engaging in the entire range of R&D for all federal agencies.

Table 2.4

Agencies Providing Federal Funds to Universities and Colleges, Including Medical Schools, for Conduct of R&D in FY 2002, by State in Rank Order (Obligations in Millions)

	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
Total	14,214	66.6	2,355	11.0	1,473	6.9	1,101	5.2	809	3.8	539	2.5	860	4.0							
Rank																					
1	CA	1,770	64.9	CA	397	14.5	MD	257	19.7	MD	235	18.0	CA	104	3.8	CA	30	1.1	CA	76	2.8
2	NY	1,288	77.1	IL	160	19.5	CA	187	6.9	CA	162	6.0	MA	86	7.2	TX	23	1.9	CO	41	9.4
3	PA	963	72.6	NY	155	9.3	PA	145	11.0	CO	59	13.6	NY	72	4.3	NC	20	2.3	NY	40	2.4
4	TX	922	73.4	MA	137	11.4	TX	96	7.7	TX	48	3.8	TX	38	3.0	IA	20	7.9	MA	39	3.3
5	MA	808	67.5	PA	108	8.1	MA	73	6.1	MA	45	3.8	PA	32	2.4	MI	19	2.9	TX	38	3.1
6	MD	688	52.8	MI	104	15.7	NY	61	3.6	AL	40	10.4	IL	29	3.6	GA	18	3.8	FL	35	7.0
7	NC	684	79.7	TX	91	7.2	IL	57	7.0	FL	36	7.3	MI	26	4.0	NY	18	1.1	MD	34	2.6
8	IL	524	64.1	WA	76	13.1	OH	46	7.8	NY	36	2.1	WI	26	5.6	MS	17	13.9	NC	33	3.9
9	MI	441	66.9	FL	74	15.0	FL	46	9.3	VA	31	8.1	FL	26	5.2	PA	16	1.2	PA	32	2.4
10	MO	439	84.7	MD	67	5.1	NC	37	4.3	PA	31	2.3	GA	26	5.2	FL	16	3.2	NH	30	21.8
11	WA	415	72.0	GA	64	13.1	GA	36	7.3	UT	25	11.7	NV	24	40.5	OH	15	2.6	OR	28	9.8
12	OH	415	70.6	AZ	64	25.4	MS	29	23.2	HI	25	18.3	AL	22	5.8	AL	15	3.8	VA	25	6.6
13	MN	364	78.4	VA	59	15.3	MI	28	4.3	OH	24	4.0	WA	22	3.9	WI	14	3.0	MI	25	3.8
14	CT	353	85.3	IN	59	20.6	NM	28	20.9	AZ	20	7.8	SC	20	11.7	MN	14	3.0	IL	21	2.6
15	WI	320	68.4	CO	57	13.2	NJ	26	8.3	GA	18	3.7	IN	19	6.6	IL	13	1.6	WI	21	4.4
16	GA	313	64.0	NC	57	6.6	VA	25	6.5	WV	18	25.3	NC	15	1.7	MO	13	2.5	OH	20	3.4
17	TN	302	78.8	NJ	56	17.7	WI	23	4.9	MI	16	2.5	NJ	14	4.5	VA	13	3.3	AK	19	32.6
18	AL	273	70.5	OH	55	9.4	WA	23	3.9	AK	13	23.0	MD	13	1.0	WA	13	2.2	WA	19	3.2
19	FL	260	52.9	WI	53	11.4	AZ	22	8.8	IL	13	1.6	OH	13	2.2	KY	12	7.7	HI	18	13.5
20	CO	245	56.5	MN	43	9.2	DC	18	8.5	NJ	13	4.1	CO	12	2.8	ND	11	26.9	SC	17	10.3
21	VA	221	57.2	OR	39	13.7	HI	18	13.6	OK	12	10.5	WV	12	16.9	NE	11	11.0	MS	17	13.6
22	OR	189	65.8	TN	28	7.3	IN	18	6.1	NC	12	1.4	VA	12	3.1	AR	11	15.3	NJ	15	4.8
23	NJ	182	58.1	MO	25	4.9	UT	17	7.8	MO	11	2.2	NM	11	8.3	TN	10	2.7	CT	15	3.6
24	IA	171	69.2	UT	25	11.5	MN	16	3.5	NH	11	8.2	CT	11	2.6	IN	10	3.5	GA	14	2.8
25	IN	164	57.5	IA	25	10.0	NE	15	14.8	MS	11	8.7	MN	10	2.1	OR	10	3.4	DC	13	6.1
26	DC	162	74.7	HI	20	14.7	RI	14	13.6	WI	11	2.3	MS	10	7.6	LA	9	5.3	RI	13	12.4
27	UT	130	60.5	NM	18	13.8	TN	13	3.5	IA	10	3.9	MO	9	1.6	MD	9	0.7	MN	12	2.7
28	AZ	122	48.6	CT	18	4.3	AL	13	3.3	MT	10	17.0	KS	8	7.1	CO	9	2.0	AL	12	3.2
29	LA	117	65.4	SC	17	10.2	MO	12	2.3	TN	9	2.5	AZ	8	3.2	OK	9	7.2	TN	12	3.1

Table 2.4 (continued)

Rank	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
30	KY	108	72.1	KS	17	14.0	CO	11	2.6	WA	9	1.6	TN	8	2.1	MA	8	0.7	IA	11	4.5
31	SC	99	59.0	LA	16	8.9	LA	9	5.2	LA	9	5.0	IA	8	3.1	SC	8	4.9	LA	11	6.1
32	NH	77	55.6	RI	15	14.7	CT	8	1.9	NM	8	6.3	LA	8	4.2	NJ	8	2.6	WV	10	14.7
33	KS	74	61.6	OK	13	11.2	OR	8	2.7	IN	8	2.9	UT	8	3.5	MT	8	14.3	OK	10	8.3
34	PR	67	75.7	NH	13	9.3	OK	5	4.4	DC	8	3.6	OR	7	2.5	KS	8	6.5	AZ	9	3.7
35	OK	64	54.1	KY	13	8.5	KY	4	2.6	ID	7	19.6	ND	6	15.0	UT	8	3.5	MO	9	1.7
36	VT	61	82.8	DE	12	25.7	IA	3	1.4	OR	6	2.2	OK	5	4.3	WV	7	9.9	IN	8	2.8
37	NM	61	45.7	AL	12	3.1	MT	3	6.0	PR	5	5.7	DC	5	2.3	AZ	7	2.6	KY	8	5.1
38	NE	54	55.0	NV	11	19.0	NH	3	2.2	RI	5	4.7	KY	3	2.3	ID	6	17.1	KS	7	6.2
39	RI	51	49.3	NE	10	10.0	SC	3	1.7	MN	5	1.0	RI	3	2.8	VT	6	7.6	NE	5	5.0
40	AR	48	69.0	DC	9	4.3	KS	3	2.3	CT	5	1.1	AK	3	5.0	SD	5	31.1	ME	4	19.8
41	HI	46	34.5	AK	8	14.4	AK	2	4.2	ND	5	11.4	DE	3	5.4	CT	5	1.2	DE	4	8.2
42	MS	33	26.8	MT	8	14.6	WV	2	3.3	SC	4	2.2	NE	2	2.5	HI	5	3.7	ND	4	9.4
43	DE	22	46.6	MS	8	6.3	NV	2	3.5	KS	3	2.2	ID	2	6.8	AK	4	7.7	WY	3	17.6
44	MT	22	39.6	ME	8	37.8	ME	2	8.6	KY	3	1.7	HI	2	1.6	PR	4	5.0	NV	3	5.2
45	WV	19	26.9	PR	7	7.9	DE	2	3.6	NV	2	2.7	MT	2	3.3	ME	4	20.4	AR	3	4.4
46	NV	15	24.5	AR	6	8.5	PR	1	1.7	NE	2	1.6	NH	1	0.9	NM	4	3.0	PR	3	3.4
47	ND	11	28.1	ID	5	15.6	ND	1	2.5	DE	1	2.7	VT	1	1.7	DE	4	7.8	MT	3	5.3
48	ID	11	32.7	WY	5	26.7	AR	1	1.2	VT	1	1.5	PR	1	0.7	NV	3	4.6	UT	3	1.4
49	SD	8	44.1	VT	4	4.8	SD	0	2.4	WY	1	5.2	WY	1	2.8	RI	3	2.6	ID	3	8.1
50	AK	8	13.2	ND	3	6.8	WY	0	0.2	SD	1	5.3	AR	0	0.6	NH	3	1.9	NM	3	1.9
51	WY	6	34.3	WV	2	3.1	ID	0	0.0	AR	1	1.1	ME	0	1.3	WY	2	13.3	VT	1	1.6
52	ME	2	10.4	SD	2	12.1	VT	0	0.0	ME	0	1.7	SD	0	0.0	DC	1	0.4	SD	1	5.1

NOTE: See Table C.3 in Appendix C for more detailed information.

A LEVEL PLAYING FIELD

Given that HHS provided over 95 percent of all the R&D funds going to medical schools in FY 2002 (see Figure 2.4), we anticipated that removing the medical school funding from the analysis would change the state rankings in terms of R&D dollars received from HHS. Such was not the case, however, as Table 2.5 shows.

Specifically, nine of the ten states whose institutions of higher education received the most R&D funds from HHS when medical school funding was included in the analysis also received the most when it was excluded (see Tables 2.4 and 2.5). That is, in alphabetical (not rank) order, California, Illinois, Maryland, Massachusetts, Michigan, New York, North Carolina, Pennsylvania, and Texas were home to the institutions of higher education that received the most R&D funds from HHS in FY 2002—regardless of whether the R&D funds for their medical schools were included. Only Missouri dropped out of the top ten ranking when medical schools were excluded, a drop which, as noted previously, indicates that the share of Missouri's federally supported university-based R&D activities based in its medical schools was larger than that of the other top ten states.

Given that less than 5 percent of the federal R&D funds going to medical schools in FY 2002 came from agencies other than HHS, it is not surprising that the states in the top ten rankings for the other major federal R&D agencies—NSF, DOD, NASA, DOE, and USDA (Table 2.5)—are virtually the same after the federal R&D funds going to the medical schools are excluded. Indeed, the specific rankings in the top ten are identical for all but two agencies: DOD, in which case New York and Illinois trade sixth and seventh place, and Georgia and North Carolina trade tenth and eleventh; and NASA, in which case Texas and Massachusetts trade fourth and fifth place, and Florida and New York trade seventh and eighth.

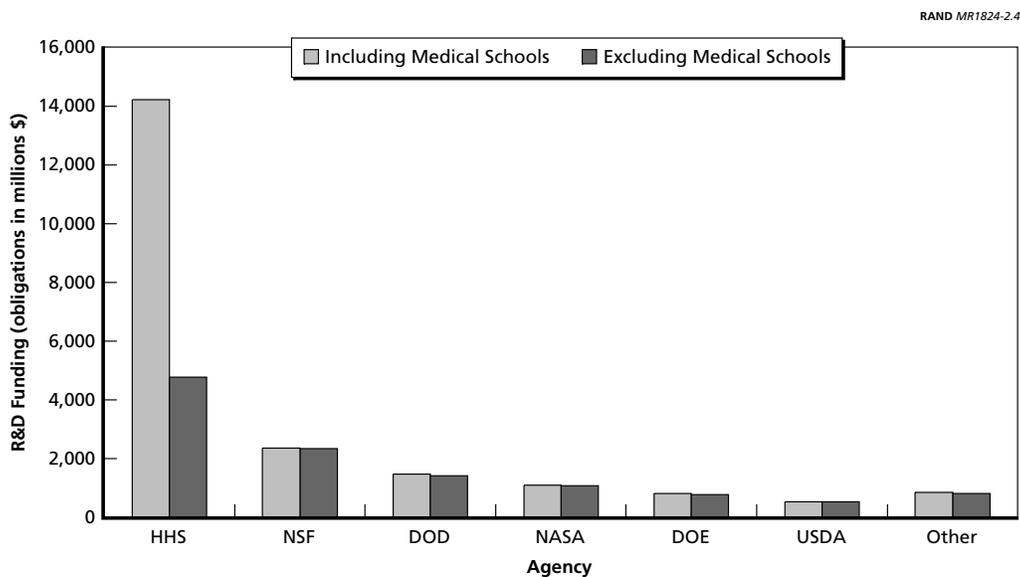


Figure 2.4—Agencies Providing Federal Funds to Universities and Colleges for Conduct of R&D in FY 2002

Table 2.5

Agencies Providing Federal Funds to Universities and Colleges, Excluding Medical Schools, for Conduct of R&D in FY 2002, by State in Rank Order (Obligations in Millions)

	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
Total	4,762	40.6	2,344	20.0	1,407	12.0	1,081	9.2	789	6.7	537	4.6	820	7.0							
Rank																					
1	CA	622	39.4	CA	397	25.1	MD	256	30.4	MD	228	27.1	CA	104	6.6	CA	30	1.9	CA	76	4.7
2	MA	441	53.3	IL	160	35.3	CA	187	11.8	CA	162	10.3	MA	85	10.3	TX	22	3.9	CO	41	7.4
3	NY	356	49.5	NY	154	21.4	PA	142	23.5	CO	59	21.4	NY	72	10.0	NC	20	6.0	MA	39	7.4
4	TX	280	48.9	MA	136	16.5	TX	80	14.0	MA	44	5.4	TX	36	6.3	IA	20	15.5	NY	35	32.6
5	PA	246	40.8	PA	108	17.9	MA	72	8.7	TX	43	7.5	PA	31	5.2	MI	19	5.0	FL	35	5.7
6	MD	237	28.1	MI	104	27.1	IL	53	11.7	AL	40	18.6	IL	28	6.2	GA	18	6.3	NC	33	14.7
7	NC	171	50.8	TX	88	15.3	NY	49	6.9	NY	35	4.9	MI	26	6.9	NY	18	2.5	MD	32	15.3
8	WA	164	50.5	WA	76	23.2	OH	46	16.9	FL	32	10.1	WI	26	9.5	MS	17	15.4	NH	30	4.8
9	IL	164	36.3	FL	74	23.0	FL	46	14.2	VA	31	14.6	FL	26	8.0	PA	16	2.7	PA	30	9.9
10	MI	164	42.9	MD	67	8.0	GA	36	12.3	PA	30	5.0	GA	25	8.7	FL	16	4.9	OR	28	6.3
11	WI	130	47.1	GA	64	21.9	NC	29	8.6	UT	25	20.8	NV	22	46.2	OH	15	5.6	VA	25	18.7
12	GA	118	40.5	AZ	64	34.4	MS	29	26.1	HI	25	19.9	AL	22	10.3	AL	15	6.8	MI	25	5.7
13	MN	107	54.1	VA	59	27.6	MI	28	7.4	OH	23	8.5	WA	22	6.9	WI	14	5.2	TX	23	6.1
14	AL	103	47.3	IN	59	29.8	NM	28	28.2	AZ	20	10.6	IN	19	9.5	MN	14	7.1	IL	21	7.8
15	OH	100	36.8	NC	57	16.9	VA	24	11.2	WV	18	31.0	NC	14	4.2	IL	13	3.0	WI	20	8.7
16	FL	93	29.0	CO	56	20.4	NJ	23	11.0	GA	16	5.6	MD	13	1.6	MO	13	8.1	OH	20	8.9
17	CO	88	32.0	OH	55	20.2	WA	23	6.9	MI	16	4.2	OH	13	4.7	VA	13	6.0	AK	19	9.1
18	NJ	87	41.3	NJ	54	25.9	AZ	22	11.9	AK	13	23.0	SC	12	15.4	WA	13	3.9	WA	19	18.1
19	MO	84	51.9	WI	53	19.3	WI	21	7.7	IL	13	2.8	CO	12	4.4	KY	12	16.8	HI	18	10.8
20	DC	80	59.5	MN	43	21.6	HI	18	14.8	NJ	13	6.0	WV	12	20.7	ND	11	33.6	MS	17	5.0
21	IN	76	38.4	OR	39	23.2	DC	18	13.4	OK	12	14.4	NJ	12	5.7	NE	11	16.2	GA	14	11.3
22	OR	71	41.9	TN	28	18.7	IN	18	8.9	NC	12	3.7	VA	12	5.5	AR	11	36.3	DC	13	5.5
23	TN	70	47.2	MO	25	15.4	UT	16	13.4	MO	11	7.0	NM	11	11.2	TN	10	7.0	NJ	13	4.1
24	LA	63	51.0	UT	25	20.5	NE	15	21.8	NH	11	14.7	CT	11	9.4	IN	10	5.1	RI	13	11.2
25	CT	62	54.0	IA	25	19.6	RI	14	20.6	MS	11	9.8	MN	10	5.0	OR	10	5.7	AL	12	9.0
26	AZ	56	30.3	HI	20	15.9	AL	13	5.8	WI	11	3.9	MS	10	8.6	LA	9	7.6	MN	12	7.4
27	IA	51	40.2	NM	18	18.3	MO	12	7.5	IA	10	7.6	KS	8	10.3	MD	9	1.1	TN	12	19.8

Table 2.5 (continued)

Rank	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
28	VA	50	23.2	CT	17	14.9	TN	12	7.8	MT	10	17.0	AZ	8	4.3	CO	9	3.1	IA	11	8.2
29	KS	38	45.3	SC	17	21.1	CO	10	3.8	WA	9	2.9	TN	8	5.3	MA	8	1.0	LA	11	11.7
30	UT	37	30.5	KS	16	19.9	LA	9	7.5	TN	9	6.2	IA	8	6.0	OK	8	9.4	CT	11	17.6
31	HI	36	29.0	LA	15	12.5	OR	8	4.5	LA	9	7.2	MO	8	4.6	NJ	8	3.8	WV	10	6.5
32	OK	34	38.9	RI	15	22.3	MN	7	3.7	NM	8	8.5	UT	7	6.1	MT	8	14.3	OK	9	6.3
33	SC	28	34.9	OK	13	15.0	CT	6	5.3	IN	8	4.2	OR	7	4.3	SC	8	10.1	AZ	9	5.3
34	NM	27	27.2	NH	13	16.6	OK	5	6.0	DC	8	5.8	LA	7	5.3	KS	8	9.4	SC	9	2.4
35	KY	27	38.9	KY	13	18.6	KY	4	5.7	ID	7	19.6	ND	6	18.6	UT	8	6.3	MO	9	9.7
36	PR	27	55.2	DE	12	25.7	MT	3	6.0	OR	6	3.7	DC	5	3.8	WV	7	12.1	IN	8	8.1
37	NE	23	33.9	AL	12	5.5	NH	3	3.9	PR	5	10.4	OK	5	5.4	AZ	7	3.5	KY	8	2.5
38	DE	22	46.6	NV	11	23.6	IA	3	2.3	RI	5	7.1	KY	3	5.0	ID	6	17.1	KS	7	6.1
39	MT	22	39.6	NE	10	14.7	KS	3	3.3	MN	5	2.4	RI	3	4.2	VT	6	29.7	NE	5	8.4
40	MS	20	17.8	DC	9	6.9	AK	2	4.2	ND	5	14.2	AK	3	5.0	SD	5	51.5	ME	4	4.7
41	NH	16	20.8	AK	8	14.4	WV	2	4.1	CT	4	3.0	DE	3	5.4	CT	5	4.3	DE	4	7.4
42	RI	16	23.3	MT	8	14.6	SC	2	2.8	SC	3	4.4	NE	2	3.7	HI	5	4.0	ND	4	7.4
43	ID	11	32.7	ME	8	37.8	NV	2	4.3	KY	3	3.8	ID	2	6.8	AK	4	7.7	WY	3	32.6
44	AR	8	28.7	MS	8	6.9	ME	2	8.6	KS	2	2.9	HI	2	1.7	PR	4	9.1	NV	3	5.7
45	AK	8	13.2	PR	7	14.5	DE	2	3.6	NV	2	3.4	MT	2	3.3	ME	4	20.4	PR	3	14.7
46	WY	6	34.3	AR	6	18.9	PR	1	3.0	NE	2	2.3	NH	1	1.6	NM	4	4.1	MT	3	15.3
47	VT	6	32.7	ID	5	15.6	ND	1	3.1	DE	1	2.7	VT	1	6.5	DE	4	7.8	UT	3	4.8
48	WV	6	10.3	WY	5	26.7	AR	1	2.5	VT	1	6.0	PR	1	1.3	NV	3	5.7	AR	3	9.9
49	NV	5	10.2	VT	4	18.9	SD	0	3.9	WY	1	5.2	WY	1	2.8	RI	3	3.9	ID	3	6.3
50	ND	3	10.4	ND	3	8.4	WY	0	0.2	SD	1	8.8	AR	0	1.4	NH	3	3.4	NM	3	18.7
51	ME	2	10.4	WV	2	3.8	ID	0	0.0	AR	1	2.5	ME	0	1.3	WY	2	13.3	VT	1	5.7
52	SD	1	7.4	SD	2	20.1	VT	0	0.0	ME	0	1.7	SD	0	0.0	DC	1	0.7	SD	1	6.1

NOTE: See Table C.5 in Appendix C for more detailed information.

Worthy of particular note is the fact that, even after all the R&D funds going to medical schools were removed from the mix, HHS continued to be *the* major provider of R&D funds to the nation's universities and colleges, supplying 40.6 percent of all such funds in FY 2002 (see Figure 2.4). NSF remained the second largest provider, supplying 20.0 percent of R&D funds to the nation's universities and colleges in FY 2002. DOD remained in third place, providing 12.0 percent. It was followed by NASA, at 9.2 percent; DOE, at 6.7 percent; and USDA, at 4.6 percent. The remaining funds (7.0 percent) were from DOC, DED, HUD, DOI, DOJ, DOL, DOT, DVA, and the EPA, NRC, and SSA in various small amounts.

R&D SPECIALIZATION AND ITS CONSEQUENCES

As with the agency-by-agency state rankings that include the federal R&D funds going to the medical schools at universities and colleges, only the institutions of higher education in California, New York, Pennsylvania, and Texas were successful in obtaining significant R&D funds from all major federal R&D agencies when we excluded the R&D funds going to medical schools. Similarly, the ranking of the universities and colleges of the average state also varied 20 places in terms of the total R&D funds received in FY 2002 from each major federal R&D agency. This provides additional support for the notion that the institutions of higher education in most states appear to “specialize” in conducting the type of R&D that is funded by only one or two of the major federal R&D agencies.

Table 2.6 provides a different view of the information in Table 2.5, this one organized by state instead of rank. In so doing, it shows that the major sources of federal R&D funding vary considerably from state to state. Specifically, Table 2.6 shows that HHS is not the primary source of federal R&D funds for the universities and colleges in over 25 percent of the states. Similarly, it shows that NSF is not the secondary source of such funds in over 40 percent of the states, and DOD is not the tertiary source in over 75 percent of the states. In short, Table 2.6 shows that the relationship between the universities and colleges within a particular state and the federal agencies that give them R&D funds is quite individualized. The numerous ways in which the federally supported R&D activities of the universities and colleges within the various states differ from one another is a topic that, given its considerable breadth, must be left for a future RaDiUS-based report. For now, we will simply note that the universities and colleges that reside in the various states tend to “specialize” in the R&D funded by specific federal agencies and that the consequences of this, which we discuss below, may not be trivial.

HOW FEDERAL R&D FUNDS ARE CONVEYED

One of the consequences of “specialization” is that the legal “ground rules” for conducting federally funded R&D at the universities and colleges may vary considerably from one state to the next. Specifically, HHS, NSF, and USDA fund the vast majority of their extramural R&D activities via grants (either project grants or formula grants), regardless of recipient. In contrast, DOD and NASA fund the vast majority of their

Table 2.6

Agencies Providing the First, Second, and Third Most Federal Funds to Universities and Colleges, Excluding Medical Schools, for Conduct of R&D in FY 2002, by State

State	Rank								
	HHS	NSF	DOD	NASA	DOE	USDA	EDUC	DOC	Other
AK		Third		First			Second		
AL	First			Second	Third				
AR	Second	Third				First			
AZ	Second	First	Third						
CA	First	Second	Third						
CO	First	Third		Second					
CT	First	Second			Third				
DC	First		Second						Third
DE	First	Second				Third			
FL	First	Second	Third						
GA	First	Second	Third						
HI	First	Third		Second					
IA	First	Second				Third			
ID	First			Second		Third			
IL	First	Second	Third						
IN	First	Second			Third				
KS	First	Second			Third				
KY	First	Second				Third			
LA	First	Second				Third			
MA	First	Second			Third				
MD	Second		First	Third					
ME	Third	First				Second			
MI	First	Second	Third						
MN	First	Second				Third			
MO	First	Second				Third			
MS	Second		First			Third			
MT	First	Third		Second					
NC	First	Second	Third						
ND				Third	Second	First			
NE	First		Second			Third			
NH	Second	Third					First		
NJ	First	Second	Third						
NM	Second	Third	First						
NV	Third	Second			First				
NY	First	Second			Third				
OH	First	Second	Third						
OK	First	Second		Third					
OR	First	Second						Third	
PA	First	Third	Second						
PR	First	Second		Third					
RI	First	Second	Third						
SC	First	Second			Third				
SD		Second		Third		First			
TN	First	Second	Third						
TX	First	Second	Third						
UT	First	Third		Second					
VA	Second	First		Third					
VT	First	Third				Second			
WA	First	Second	Third						
WI	First	Second			Third				
WV				First	Second			Third	
WY	First	Second							Third

NOTE: See Table C.6 in Appendix C for more detailed information.

extramural R&D activities via contracts, regardless of recipient. DOE also funds the majority of its extramural R&D activities via contracts. The R&D dollars DOE conveys via contracts, however, go largely to universities, corporations, and/or nonprofits for the management and operation of the national laboratories, which this analysis does not include. As a result, the DOE extramural funding profile of relevance to this discussion is more balanced with regard to the use of grants and contracts.

That is, when one looks at the federal R&D dollars going only to universities and colleges, the funding profiles of DOD and NASA are quite different from those of HHS, NSF, and USDA, with respect to the mix of grants and contracts. In FY 2002, over 45 percent of the R&D funds that DOD awarded to universities and colleges and over 34 percent of the R&D funds NASA awarded to universities and colleges were conveyed via contracts, whereas HHS, NSF, and USDA conveyed less than 4 percent of their R&D funds to universities and colleges via contracts. Consequently, universities and colleges that receive a large share of their federal funds for R&D from HHS, NSF, and USDA have more freedom to conduct that R&D, because the federal government has little control over R&D conducted with funds conveyed via grants. In addition, these universities and colleges have fewer concerns about rights that the federal government may have to the data or other intellectual property resulting from their R&D, because such rights attach only to federal R&D funds conveyed to universities and colleges via contracts.¹

The majority (78.3 percent) of federal R&D funds going to universities and colleges were conveyed in the form of project grants, as shown in Table 2.7. However, the proportion of the total federal R&D funds going to institutions of higher education in each state in the form of project grants varied considerably. For example, among the top ten states whose universities and colleges (including their medical schools) received the most overall federal funds for the conduct of R&D in FY 2002, New York received 88.0 percent of its funds in the form of project grants, whereas Maryland received only 54.2 percent of its funds in this form. Despite this range, however, nine of the ten states whose universities and colleges received the most overall federal R&D funds (see left side of Table 2.3) were the same states whose universities and colleges received the most federal R&D funds via project grants. Only Ohio fell out of the top ten ranking of recipients of project grants, replaced by Washington.

After project grants, cooperative agreements are the second most common vehicle for transferring R&D funds from the federal government to the universities and colleges in the states. Specifically, Table 2.7 shows that 13.2 percent of all R&D funds going to such institutions in FY 2002 took the form of cooperative agreements. This fund-transferring vehicle is similar to a project grant in that both are designed to transfer the “discovery” work to the nonfederal recipient of the funds, but it differs from a project grant in that it requires the federal funding unit to participate more actively in the actual conduct of the R&D. Consequently, it is not surprising to find

¹ See 35 USC 200 et seq., the provisions of which are commonly referred to as Bayh-Dole. Also see 48 CFR 27.400 et seq.

Table 2.7

Federal Funds Provided to Universities and Colleges, Including Medical Schools, for Conduct of R&D in FY 2002 , by State in Rank Order (Obligations in Millions)

Rank	Project Grants		Contracts		Cooperative Agreements		Formula Grants	
	Amount	%	Amount	%	Amount	%	Amount	%
Total	16,717	78.3	1,568	7.3	2,825	13.2	242	1.1
1	CA 2,158	79.2	MD 445	34.1	CA 402	14.8	TX 11	0.9
2	NY 1,469	88.0	CA 160	5.9	MA 251	21.0	NC 11	1.3
3	PA 1,066	80.4	PA 115	8.7	TX 210	16.7	DC 10	4.7
4	TX 946	75.4	TX 89	7.1	NY 159	9.5	AL 9	2.4
5	MA 905	75.7	OH 58	9.9	MD 148	11.4	TN 8	2.1
6	MD 706	54.2	NC 53	6.2	PA 139	10.5	GA 8	1.6
7	NC 677	78.9	UT 44	20.6	IL 119	14.6	KY 8	5.4
8	IL 658	80.5	FL 39	7.9	NC 117	13.7	MO 8	1.5
9	MI 548	83.2	AL 39	10.0	MO 102	19.7	VA 7	1.9
10	WA 486	84.2	CO 38	8.8	MI 82	12.4	MS 7	5.5
11	OH 468	79.7	MA 38	3.2	AL 76	19.7	PA 7	0.5
12	FL 397	80.9	MO 37	7.2	DC 70	32.1	IA 6	2.6
13	WI 396	84.5	NY 36	2.2	CO 65	15.1	AR 6	8.8
14	GA 395	80.8	IL 35	4.2	WA 64	11.1	NY 6	0.4
15	CT 388	93.7	GA 33	6.7	MN 63	13.6	OH 6	1.0
16	MO 372	71.7	MS 27	21.5	OH 55	9.4	CA 6	0.2
17	MN 369	79.5	MN 27	5.8	GA 53	10.9	IL 6	0.7
18	CO 327	75.4	HI 24	17.9	VA 53	13.6	MI 6	0.8
19	VA 311	80.5	WI 24	5.0	TN 50	13.0	FL 6	1.1
20	TN 306	79.8	MI 23	3.5	FL 49	10.1	WI 5	1.2
21	NJ 269	85.7	WA 23	3.9	WI 43	9.3	MN 5	1.2
22	AL 263	67.9	TN 19	5.1	AZ 32	12.6	SC 5	3.2
23	OR 250	87.0	DC 16	7.3	LA 31	17.4	IN 5	1.8
24	IN 242	85.0	VA 15	4.0	OK 28	23.8	LA 5	2.9
25	IA 225	91.4	NJ 14	4.6	NJ 27	8.7	OK 5	4.2
26	AZ 208	83.1	AK 12	20.8	OR 26	9.1	WA 4	0.8
27	UT 149	69.1	IN 12	4.1	IN 26	9.1	PR 4	4.5
28	LA 138	76.9	AZ 9	3.4	HI 25	18.8	WV 4	5.6
29	SC 137	81.7	NM 8	5.8	SC 24	14.6	MD 4	0.3
30	KY 133	88.7	OR 7	2.6	NM 21	15.8	OR 4	1.2
31	DC 121	55.9	RI 6	5.8	WV 21	29.2	KS 4	3.0
32	NH 116	83.9	NV 6	9.8	UT 20	9.5	NE 4	3.5
33	KS 105	88.3	CT 6	1.4	MS 20	16.2	CO 3	0.7
34	NM 103	77.0	OK 5	4.3	PR 19	21.7	NJ 3	0.9
35	NE 87	87.9	LA 5	2.8	CT 18	4.4	SD 3	14.8
36	RI 85	82.2	IA 4	1.7	NH 17	12.2	ID 3	7.5
37	HI 83	62.1	NH 4	2.6	NV 14	23.7	DE 3	5.3
38	OK 80	67.8	WY 3	15.2	AK 14	24.1	MT 2	4.4
39	MS 71	56.8	KY 2	1.5	RI 11	10.7	ND 2	6.0
40	PR 65	73.1	ME 2	11.0	IA 11	4.3	MA 2	0.2
41	VT 64	87.0	VT 2	2.3	KS 9	7.9	ME 2	11.5
42	AR 61	87.7	WV 1	1.4	NE 8	8.3	AZ 2	0.9
43	MT 52	92.9	KS 1	0.8	ND 7	16.6	CT 2	0.5
44	WV 46	63.8	SC 1	0.5	KY 7	4.4	UT 2	0.9
45	DE 43	89.2	MT 1	1.1	VT 6	8.4	NM 2	1.4
46	NV 39	64.4	PR 1	0.7	DE 2	5.1	WY 2	9.6
47	ND 31	77.4	NE 0	0.3	AR 2	3.1	NH 2	1.3
48	AK 30	52.7	AR 0	0.4	WY 2	10.7	VT 2	2.3
49	ID 30	89.1	DE 0	0.5	ID 1	3.1	HI 1	1.1
50	ME 16	77.0	ID 0	0.4	MT 1	1.5	AK 1	2.4
51	SD 15	84.1	ND 0	0.0	SD 0	1.2	RI 1	1.2
52	WY 12	64.5	SD 0	0.0	ME 0	0.5	NV 1	2.1

NOTE: See Table C.7 in Appendix C for more detailed information.

that nine of the states whose institutions of higher education received the most federal R&D funds in the form of cooperative agreements are also among the top ten states that received the most federal R&D funds in the form of project grants. Only Washington fell out of the top ten ranking of recipients of cooperative agreements, replaced by Missouri.

In substantial contrast, however, is the pattern among the ten states whose universities and colleges received the most federal R&D funds in the form of contracts. Only six of the states in this group (California, Maryland, North Carolina, Ohio, Pennsylvania, and Texas) were also among the top ten states whose universities and colleges received the most overall federal R&D funds. Not surprisingly, all of the states in the group that received the most federal R&D funds in the form of contracts—the four new “top ten” states (Alabama, Colorado, Florida, and Utah), as well as the six “seasoned top ten” states—were home to sizable DOD, NASA, and/or DOE facilities. Indeed, the ten states whose universities and colleges received the largest percentage, as opposed to the largest amount, of their federal R&D funds in FY 2002 in the form of contracts (in descending order: Maryland, Mississippi, Alaska, Utah, Hawaii, Wyoming, Maine, Alabama, Ohio, and Nevada) were home to four of NASA’s flight and/or research centers, five directorates of DOD’s Air Force Research Laboratory, three major field sites of DOD’s Navy Research Laboratory, two laboratory/research centers of DOD’s Army Research Laboratory, DOD’s major research facility for testing chemical and biological weapons, and DOE’s Nevada Test Site. Presumably, some amount of the federal R&D conducted by the institutions of higher education in these states was somehow related to the work of these nearby federal R&D units.

Formula grants, which are used in very limited circumstances and primarily by only one federal agency (USDA) to fund R&D, were not used to transfer many R&D dollars to institutions of higher education in any state in FY 2002 (the total was 1.3 percent). Given that formula grants are not awarded in full and open competition but, instead, generally carry mandatory minimum funding amounts for each eligible state, it is not surprising that the states whose institutions received the largest share of their federal R&D dollars in the form of formula grants in FY 2002 are also among the states with the fewest and the smallest universities and colleges (Arizona, Idaho, Maine, Mississippi, North Dakota, South Dakota, West Virginia, and Wyoming, all of which received more than 6.0 percent of their federal R&D dollars in the form of formula grants in FY 2002).

Table 2.8 shows that removing the federal R&D funds going to medical schools from the analysis has very little effect on the pattern among the states. With medical school funding excluded, the same ten states remained at the top of the ranks of states whose universities and colleges received the most federal R&D funds via project grants and formula grants (albeit in a slightly different order for project grants). In addition, nine of the ten states that had topped the ranks of states whose universities and colleges received the most federal R&D funds via contracts remained at the top, as did eight of the ten states that had topped the ranks of states whose universities and colleges received the most federal R&D funds via cooperative agreements. Thus, while the exclusion of medical schools affected the relative mix of grants and

Table 2.8

Federal Funds Provided to Universities and Colleges, Excluding Medical Schools, for Conduct of R&D in FY 2002, by State in Rank Order (Obligations in Millions)

	Project Grants		Contracts		Cooperative Agreements		Formula Grants					
	Amount	%	Amount	%	Amount	%	Amount	%				
Total	8,360	71.2	1,431	12.2	1,708	14.5	242	2.1				
Rank												
1	CA	1,157	73.3	MD	435	51.6	CA	258	16.4	TX	11	1.9
2	NY	587	81.6	CA	157	10.0	MA	227	27.5	NC	11	3.2
3	MA	560	67.7	PA	112	18.6	NY	104	14.4	DC	10	7.6
4	TX	428	74.8	TX	62	10.8	MD	95	11.3	AL	9	4.4
5	PA	412	68.2	OH	56	20.6	IL	79	17.5	TN	8	5.4
6	IL	336	74.2	AL	39	17.9	PA	73	12.1	GA	8	2.8
7	MD	309	36.7	MA	37	4.5	TX	72	12.6	KY	8	11.7
8	MI	298	77.9	NC	37	10.9	MI	62	16.2	MO	8	4.8
9	WA	270	82.8	MO	36	22.4	DC	55	40.8	VA	7	3.4
10	NC	256	76.3	FL	36	11.1	AL	45	20.6	MS	7	6.2
11	FL	254	79.0	CO	35	12.6	CO	44	15.9	PA	7	1.1
12	WI	225	81.6	UT	34	28.0	MN	37	18.6	IA	6	5.0
13	GA	219	74.9	IL	32	7.0	VA	37	17.1	AR	6	20.9
14	CO	194	70.4	GA	29	10.0	GA	36	12.3	NY	6	0.8
15	OH	190	69.5	MS	27	24.0	NC	32	9.5	OH	6	2.2
16	NJ	183	87.0	HI	24	19.5	WA	29	8.9	CA	6	0.4
17	IN	168	85.3	WA	23	6.9	OK	27	31.6	IL	6	1.3
18	VA	155	72.5	NY	22	3.1	LA	26	21.1	MI	6	1.5
19	AZ	154	83.6	WI	20	7.3	FL	26	8.1	FL	6	1.7
20	OR	141	83.2	MN	20	9.9	WI	25	9.1	WI	5	2.0
21	MN	136	68.8	MI	17	4.5	HI	23	18.2	MN	5	2.7
22	AL	124	57.1	TN	15	10.1	AZ	21	11.6	SC	5	6.8
23	MO	114	70.0	VA	15	7.0	OH	21	7.7	IN	5	2.6
24	IA	110	87.4	AK	12	20.8	WV	21	35.9	LA	5	4.2
25	TN	106	70.9	IN	12	5.9	TN	20	13.5	OK	5	5.7
26	CT	106	91.5	DC	11	8.5	MS	20	17.8	WA	4	1.3
27	LA	88	71.1	NJ	8	3.8	NM	18	18.1	PR	4	8.3
28	HI	76	61.2	NM	8	7.9	OR	17	10.3	WV	4	6.8
29	UT	75	61.9	OR	7	4.4	NJ	17	7.9	MD	4	0.5
30	KS	73	88.2	AZ	7	3.7	SC	15	19.1	OR	4	2.1
31	NM	71	72.2	RI	6	8.8	NV	14	29.4	KS	4	4.3
32	NH	60	77.1	NV	6	12.2	AK	14	24.1	NE	4	5.2
33	DC	58	43.1	CT	6	5.0	NH	12	16.0	CO	3	1.1
34	SC	58	73.2	OK	5	5.2	IN	12	6.1	NJ	3	1.4
35	MS	57	51.9	LA	4	3.6	PR	11	22.4	SD	3	24.4
36	NE	57	84.8	NH	4	4.6	UT	10	8.6	ID	3	7.5
37	RI	55	79.8	IA	3	2.7	ND	7	20.7	DE	3	5.3
38	KY	54	78.7	WY	3	15.2	RI	7	9.6	MT	2	4.4
39	MT	52	92.9	KY	2	3.3	NE	6	9.6	ND	2	7.5
40	OK	50	57.5	ME	2	11.0	IA	6	4.9	MA	2	0.3
41	DE	43	89.2	VT	2	9.1	KS	6	7.0	ME	2	11.5
42	PR	33	68.1	WV	1	1.7	MO	5	2.8	AZ	2	1.2
43	WV	32	55.6	SC	1	0.9	KY	4	6.3	CT	2	1.8
44	AK	30	52.7	MT	1	1.1	VT	4	19.2	UT	2	1.6
45	ID	30	89.1	PR	1	1.2	DE	2	5.1	NM	2	1.8
46	NV	27	55.8	KS	0	0.6	CT	2	1.7	WY	2	9.6
47	ND	23	71.8	NE	0	0.4	WY	2	10.7	NH	2	2.2
48	AR	22	74.5	AR	0	0.8	AR	1	3.8	VT	2	9.1
49	ME	16	77.0	DE	0	0.5	ID	1	3.1	HI	1	1.2
50	VT	12	62.5	ID	0	0.4	MT	1	1.5	AK	1	2.4
51	WY	12	64.5	ND	0	0.0	SD	0	2.0	RI	1	1.9
52	SD	8	73.6	SD	0	0.0	ME	0	0.5	NV	1	2.6

NOTE: See Table C.8 in Appendix C for more detailed information.

contracts received by universities and colleges in some states, it had little effect on the overall ranking of the states with respect to their receipt of grants and contracts.

WHICH INSTITUTIONS COMPETE FOR FEDERAL R&D FUNDS?

To date, the only universities and colleges commonly discussed in the competition for federal R&D funds are those that were “winners” of such awards. Not all universities and colleges in the nation, however, attempt to compete for federal R&D funds. To determine the percentage of universities and colleges in the states that do successfully compete for federal R&D funds, we identified the “universe” of all potentially eligible institutions in the states and compared it with the institutions that actually obtained such funds in FY 2002.

Not surprisingly, every MD-granting institution in every state sought and obtained federal R&D funds in FY 2002 (see Table 2.9). At least 50 percent of all universities and colleges that grant PhD degrees in all states successfully obtained federal R&D funds in FY 2002. In 38 states, at least 75 percent of the universities and colleges that grant PhD degrees successfully obtained federal R&D funds in FY 2002. The situation for universities and colleges granting master’s degrees (both MA’s and MS’s) and bachelor’s degrees (both BA’s and BS’s) was noticeably different, with many fewer such institutions competing for and/or successfully obtaining such funds. Nevertheless, in 31 states, at least 50 percent of the institutions granting master’s degrees successfully obtained federal R&D funds, as did over 50 percent of the institutions granting bachelor’s degrees in 21 states. Please note that these percentages need to be used with care, however, because they put all states on an equal footing with respect to the success of their institutions of higher education in obtaining federal R&D funds—regardless of how many such institutions a state has. Thus, for instance, Wyoming’s single four-year institution of higher education is put on an equal footing with New York’s more than 100 such institutions—many of which have multiple campuses. In addition, institutions with fewer than 100 faculty members and students are treated the same way as institutions with thousands of faculty members and students. Note also that Table 2.9 includes universities and colleges that do not want federal R&D funds and that therefore neither apply for nor receive federal R&D funds. Consequently, states that are home to a number of institutions that confer graduate degrees not involving the conduct of R&D (e.g., doctorates in divinity and/or counseling) will have noticeably lower percentages of institutions obtaining R&D funds. Nevertheless, Table 2.9 does show, for the first time, the proportion of the states’ universities and colleges that received R&D funds from the federal government in FY 2002. In so doing, it shows that universities and colleges in every part of the nation are interested in obtaining federal R&D funds.

Table 2.9

**Percentage of Universities and Colleges Receiving Federal Funds for Conduct of R&D
in FY 2002, by State and by Types of Degrees Granted by the Universities
and Colleges Located in the State**

State	All Degree Granting Institutions	All BA/BS Granting Institutions	All MA/MS Granting Institutions	All PhD Granting Institutions	All MD Granting Institutions
Alabama	48.6	50.0	56.0	90.0	100.0
Alaska	83.3	83.3	100.0	100.0	na
Arizona	26.7	28.6	28.6	60.0	100.0
Arkansas	42.9	42.9	61.5	100.0	100.0
California	46.2	51.0	50.5	58.3	100.0
Colorado	50.0	50.0	62.5	80.0	100.0
Connecticut	39.1	40.9	47.4	87.5	100.0
Delaware	40.0	40.0	40.0	50.0	na
District of Columbia	61.5	66.7	66.7	100.0	100.0
Florida	40.4	41.2	55.9	87.5	100.0
Georgia	49.0	46.9	55.6	100.0	100.0
Hawaii	33.3	33.3	50.0	100.0	100.0
Idaho	42.9	42.9	60.0	100.0	na
Illinois	36.5	38.6	45.1	54.2	100.0
Indiana	32.6	34.1	29.7	50.0	100.0
Iowa	37.8	37.8	42.9	83.3	100.0
Kansas	30.8	30.8	38.9	100.0	100.0
Kentucky	21.2	21.9	31.8	50.0	100.0
Louisiana	73.9	72.7	78.9	100.0	100.0
Maine	50.0	50.0	44.4	100.0	na
Maryland	59.4	58.1	58.6	84.6	100.0
Massachusetts	44.7	46.4	47.5	77.8	100.0
Michigan	40.4	40.4	48.5	81.8	100.0
Minnesota	38.1	39.5	50.0	54.5	100.0
Mississippi	68.8	68.8	75.0	100.0	100.0
Missouri	28.6	26.7	36.4	70.0	100.0
Montana	60.0	60.0	50.0	100.0	na
Nebraska	22.7	22.7	31.3	100.0	100.0
Nevada	66.7	66.7	100.0	100.0	100.0
New Hampshire	27.8	29.4	36.4	75.0	100.0
New Jersey	58.6	58.6	63.0	81.8	100.0
New Mexico	55.6	55.6	55.6	100.0	100.0
New York	54.2	54.6	58.4	81.4	100.0
North Carolina	41.5	41.5	52.9	92.9	100.0
North Dakota	33.3	33.3	75.0	100.0	100.0
Ohio	40.3	39.4	43.9	77.8	100.0
Oklahoma	37.5	37.5	52.9	80.0	100.0
Oregon	40.7	38.5	50.0	66.7	100.0
Pennsylvania	37.2	38.5	40.7	58.6	100.0
Puerto Rico	53.3	51.9	81.3	87.5	100.0
Rhode Island	40.0	40.0	44.4	60.0	100.0
South Carolina	32.4	33.3	42.9	57.1	100.0
South Dakota	35.7	35.7	41.7	100.0	100.0
Tennessee	31.9	30.2	42.9	73.3	100.0
Texas	54.3	57.0	61.3	83.3	100.0
Utah	71.4	71.4	66.7	100.0	100.0
Vermont	11.8	12.5	15.4	100.0	100.0
Virginia	47.9	50.0	67.7	100.0	100.0
Washington	54.2	54.2	57.1	80.0	100.0

Table 2.9 (continued)

State	All Degree Granting Institutions	All BA/BS Granting Institutions	All MA/MS Granting Institutions	All PhD Granting Institutions	All MD Granting Institutions
West Virginia	42.9	45.0	55.6	100.0	100.0
Wisconsin	55.6	55.9	60.0	71.4	100.0
Wyoming	100.0	100.0	100.0	100.0	na

NOTES: The units of multicampus universities and university systems were counted separately. See Appendix D for a complete list of the universities and colleges and their campuses in each state.

Calculating the percentage of institutions receiving federal R&D funding: For each state, the percentage of institutions receiving federal R&D funding was calculated for BA/BS, MA/MS, PhD, and MD degrees. The numerator was the sum of institutions granting a given degree that also received federal R&D funding; the denominator was the number of institutions granting a given degree. As a result, research institutions that do not grant degrees were not counted. Similarly, Regents and Board of Directors offices of the big university systems were not counted either.

INDIVIDUAL UNIVERSITIES AND COLLEGES: HOW DO THEY COMPARE IN OBTAINING FEDERAL R&D FUNDS?

Appendix D contains detailed information, by state, on the amount of federal funds that went to *every* four-year accredited university and college in the nation in FY 2002 for the conduct of R&D. Tables 2.10 and 2.11, both of which are presented here, and Tables C.1 through C.22 (see Appendix C) are based on the information in Appendix D. All of these tables identify the top-ranking universities and colleges in the nation on a variety of different dimensions likely to be of interest to anyone tracking federal R&D funds going to such institutions. Table C.23, the final table in Appendix C, is based not on the information in Appendix D but on additional information from the RaDiUS database. The contents of the one major “overview” table we provide here, Table 2.10, are discussed in detail below. A short discussion of Table 2.11 then follows, after which Tables C.1 through C.22 are briefly described.

Table 2.10 lists the 100 universities and colleges in the nation that received the most federal R&D funds in FY 2002, both including and excluding the federal R&D funds that went to medical schools. It shows that Johns Hopkins University ranked first in the nation in federal funds received for the conduct of R&D, regardless of whether the analysis included or excluded the federal R&D funds going to medical schools. Indeed, the success of Johns Hopkins University in winning federal R&D funds in FY 2002 so eclipsed that of other universities and colleges in the nation that the Medical School at Johns Hopkins University *alone* outranked all but nine of the universities and colleges in the nation in terms of the amount of federal R&D funds it garnered. In other words, if Johns Hopkins University Medical School *alone* (Table 2.11) is compared to all the universities and colleges *with* their medical schools (left side of Table 2.10), it ranks tenth. Furthermore, if Johns Hopkins University *without* its medical school (right side of Table 2.10) is compared to all the other universities and colleges *with* their medical schools (left side of Table 2.10), it still ranks first in the nation in federal R&D funds received. As noted previously, in the discussion of Tables 2.1 and 2.2, the presence of the Applied Physics Laboratory at Johns Hopkins University has much to do with the perennial top ranking of Johns Hopkins University with or with-

Table 2.10
Federal Funds Provided to Top 100 Universities and Colleges for Conduct of R&D in FY 2002 (Obligations in Millions)

Rank	University or College (Including Medical School)	Total Federal Funds Received for Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for Conduct of R&D
1	Johns Hopkins University	968	1	Johns Hopkins University	604
2	University of Washington, Seattle	518	2	Massachusetts Institute of Technology	381
3	University of Pennsylvania	458	3	University of Washington, Seattle	267
4	University of Michigan, Ann Arbor	429	4	University of Wisconsin, Madison	253
5	University of California, Los Angeles	413	5	University of California, Berkeley	224
6	University of California, San Diego	406	6	University of California, San Diego	223
7	Stanford University	386	7	Pennsylvania State University, University Park	221
8	Massachusetts Institute of Technology	381	8	University of Michigan, Ann Arbor	216
9	University of Wisconsin, Madison	365	9	University of Illinois, Urbana-Champaign	206
10	Washington University, St Louis	360	10	University of Minnesota, Twin Cities	193
11	University of California, San Francisco	357	11	University of California, Los Angeles	193
12	University of Pittsburgh	337	12	Harvard University	193
13	Columbia University	335	13	Stanford University	178
14	Harvard University	333	14	University of Colorado, Boulder	157
15	Duke University	327	15	Cornell University	149
16	Yale University	312	16	University of Texas, Austin	141
17	University of Minnesota, Twin Cities	310	17	University of North Carolina, Chapel Hill	139
18	University of North Carolina, Chapel Hill	308	18	University of Texas, MD Anderson Cancer Center	137
19	Baylor College of Medicine	274	19	University of Maryland, College Park	135
20	University of Alabama, Birmingham	261	20	Columbia University	129
21	Cornell University	259	21	University of California, Davis	128
22	University of Southern California	224	22	University of Pittsburgh	120
23	University of California, Berkeley	224	23	University of Arizona	119
24	Vanderbilt University	224	24	University of Pennsylvania	118
25	Pennsylvania State University, University Park	221	25	University of Southern California	116
26	University of Illinois, Urbana-Champaign	206	26	University of Hawaii, Manoa	110
27	Case Western Reserve University	195	27	Ohio State University, Columbus (includes AES at Wooster)	110

Table 2.10 (continued)

Rank	University or College (Including Medical School)	Total Federal Funds Received for Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for Conduct of R&D
28	University of Rochester	189	28	Georgia Institute of Technology	107
29	University of California, Davis	189	29	Rutgers University, New Brunswick	107
30	Emory University	189	30	University of Florida	102
31	University of Arizona	185	31	University of Alabama, Birmingham	101
32	University of Iowa	177	32	Texas A&M University, College Station	95
33	Boston University	176	33	Michigan State University	94
34	Ohio State University, Columbus (includes AES at Wooster)	173	34	Purdue University	93
35	University of Chicago	172	35	University of Georgia	91
36	University of Colorado System Health Sciences Center	171	36	Carnegie Mellon University	81
37	University of Virginia, Charlottesville	168	37	University of California, Irvine	81
38	Oregon Health & Science University	167	38	Duke University	81
39	University of Florida	165	39	Princeton University	80
40	University of Texas, Southwestern Medical Center at Dallas	163	40	Colorado State University	78
41	Northwestern University	161	41	University of Illinois, Chicago	78
42	University of Colorado, Boulder	157	42	Boston University	78
43	University of Utah	155	43	University of California, Santa Barbara	72
44	Mount Sinai School of Medicine	150	44	University of California, San Francisco	71
45	Mayo Medical School	148	45	Oregon State University	70
46	New York University	143	46	Rockefeller University	69
47	University of Illinois, Chicago	143	47	Northwestern University	69
48	University of Texas, Austin	141	48	University of Rochester	69
49	Yeshiva University	139	49	Yale University	67
50	University of Texas, MD Anderson Cancer Center	137	50	George Washington University (includes Mount Vernon campus)	66
51	University of California, Irvine	136	51	California Institute of Technology	64
52	University of Maryland, College Park	135	52	North Carolina State University	63
53	University of Maryland, Baltimore	128	53	University of Utah	60
54	University of Hawaii, Manoa	121	54	Iowa State University	60

Table 2.10 (continued)

Rank	University or College (Including Medical School)	Total Federal Funds Received for Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for Conduct of R&D
55	University of Miami	120	55	Arizona State University, Tempe	57
56	University of Cincinnati	110	56	University of Indiana, Bloomington	56
57	Wake Forest University	109	57	University of Iowa	56
58	Georgia Institute of Technology	107	58	University of Massachusetts, Amherst	56
59	University of Medicine & Dentistry of New Jersey	107	59	Virginia Polytechnic Institute and State University	56
60	Rutgers University, New Brunswick	107	60	University of Missouri, Columbia	56
61	University of Kentucky	105	61	University of New Mexico	54
62	Wayne State University	103	62	University of Virginia, Charlottesville	54
63	University of Texas, Health Science Center at Houston	102	63	State University of New York, Stony Brook	53
64	Michigan State University	101	64	Utah State University	53
65	University of Connecticut	97	65	University of Alaska, Fairbanks	52
66	Indiana University—Purdue University at Indianapolis	96	66	University of Nebraska, Lincoln	52
67	Dartmouth College	95	67	University of Kentucky	51
68	Texas A&M University, College Station	95	68	Vanderbilt University	51
69	Purdue University	93	69	University of Tennessee, Knoxville	51
70	Medical University of South Carolina	92	70	Washington State University, Pullman	50
71	University of Massachusetts, Medical School at Worcester	92	71	State University of New York, Buffalo	50
72	University of Georgia	91	72	Case Western Reserve University	49
73	University of New Mexico	89	73	Emory University	49
74	State University of New York, Stony Brook	88	74	Oregon Health & Science University	49
75	Georgetown University	83	75	University of Chicago	48
76	George Washington University (includes Mount Vernon campus)	83	76	Wayne State University	47
77	Medical College of Wisconsin	82	77	University of Delaware	46
78	Carnegie Mellon University	81	78	University of Kansas, Lawrence	46
79	University of Texas, Health Science Center at San Antonio	81	79	Louisiana State University, Baton Rouge	45
80	University of Texas, Medical Branch-Galveston	81	80	Washington University, St Louis	45
81	Thomas Jefferson University	80	81	University of Connecticut	44
82	Princeton University	80	82	Mississippi State University	44

Table 2.10 (continued)

Rank	University or College (Including Medical School)	Total Federal Funds Received for Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for Conduct of R&D
83	Virginia Commonwealth University	79	83	University of South Florida, Tampa	43
84	Colorado State University	78	84	University of Miami	41
85	Brown University	75	85	Brown University	40
86	State University of New York, Buffalo	74	86	University of Oregon	40
87	University of South Florida, Tampa	72	87	University of New Hampshire, Durham	38
88	University of Vermont	72	88	Florida State University	37
89	University of California, Santa Barbara	72	89	New York University	36
90	Oregon State University	70	90	University of California, Santa Cruz	36
91	Rockefeller University	69	91	University of Notre Dame	35
92	University of Missouri, Columbia	67	92	Tulane University	35
93	California Institute of Technology	64	93	University of Maryland, Baltimore County	35
94	North Carolina State University	63	94	Dartmouth College	34
95	Iowa State University	60	95	University of California, Riverside	34
96	Tulane University	60	96	Georgetown University	34
97	Arizona State University, Tempe	57	97	Montana State University, Bozeman	33
98	University of Indiana, Bloomington	56	98	West Virginia University	33
99	Tufts University	56	99	University of Maryland, Baltimore	32
100	University of Massachusetts, Amherst	56	100	University of South Carolina, Columbia	32

NOTE: See Table C.10 in Appendix C for more detailed information.

out its medical school. For example, in FY 2002, the Applied Physics Laboratory received almost 50 percent more federal funds with which to conduct R&D than did the remainder of the non-medical-school portion of Johns Hopkins University.

Similarly, the Massachusetts Institute of Technology, which does not have a medical school, received more federal R&D funds than did all but seven universities that do have medical schools. That is, in the national ranking that included *all* the federal funds going to institutions of higher education for the conduct of R&D in FY 2002, the Massachusetts Institute of Technology ranked below the universities of Washington at Seattle, Pennsylvania, Michigan at Ann Arbor, California at Los Angeles, and California at San Diego, and Stanford University *only* because the R&D funds going to the medical schools at these universities were included in their totals.

Several other institutions of higher education also frequented the top ten ranks of U.S. universities and colleges receiving federal R&D funds in FY 2002, regardless of whether the federal R&D funds going to medical schools were included or excluded. Foremost among these was the University of Washington at Seattle, which ranked second in the nation when federal R&D funds going to medical schools were included and third when they were excluded. Similarly, the University of Michigan at Ann Arbor ranked fourth in the nation when these funds were included and eighth when they were excluded; the University of Wisconsin at Madison ranked ninth with them included and fourth with them excluded; and the University of California at San Diego ranked sixth with them both included *and* excluded.

When we expanded the ranks to encompass the top 20 universities and colleges in the nation, Stanford University ranked seventh when federal R&D funds going to medical schools were included and thirteenth when they were excluded. Columbia University ranked thirteenth with them included and twentieth with them excluded; Harvard University ranked fourteenth with them and twelfth without them; the University of Minnesota in the Twin Cities ranked seventeenth with them and tenth without them; and, finally, the University of North Carolina at Chapel Hill ranked eighteenth with them and seventeenth without them.

In summary, 12 universities and colleges receiving federal R&D funds in FY 2002 ranked in the top 20, regardless of whether the analysis included or excluded the R&D funds going to medical schools. Similarly, 80 institutions of higher education ranked among the top 100 in FY 2002, regardless of whether the medical school funds were included or not. Such numbers strongly suggest that federally supported R&D activities are concentrated in only a few of the nation's many universities and colleges. Indeed, totaling the federal R&D funds going to these 80 universities and colleges in FY 2002 revealed that they received 71 percent of all federal funds awarded to universities and colleges for the conduct of R&D in FY 2002. Hence, it is clear that, while many of the nation's universities and colleges received some federal R&D funds in FY 2002, the majority of federally supported R&D activities were highly concentrated in only a few of them.

Table 2.11 shows that there was a similar concentration of federal R&D funds among the nation's medical schools in FY 2002. Specifically, the top ten medical schools listed in the table received 29 percent of all federal R&D funds awarded to medical schools in FY 2002. When the top 20 medical schools are looked at, the percentage of all federal R&D funds awarded to these medical schools in FY 2002 increases to 47 percent. In short, in FY 2002, while all but one medical school in the nation received some federal R&D funds, a mere 16 percent of medical schools received almost 50 percent of all federal funds provided to such institutions for the conduct of R&D.

Table 2.11
Federal Funds Provided to Medical Schools for Conduct of R&D in FY 2002,
by Medical School in Rank Order (Obligations)

Rank	Medical School ^a	Total Federal Funds Received for Conduct of R&D
1	John Hopkins University School of Medicine	364,493,858
2	University of Pennsylvania School of Medicine	340,142,057
3	Washington University School of Medicine	315,794,675
4	University of California, San Francisco—School of Medicine	285,432,106
5	Baylor College of Medicine	272,426,074
6	University of Washington School of Medicine	250,935,417
7	Duke University School of Medicine	246,734,592
8	Yale University School of Medicine	245,736,787
9	University of California, Los Angeles—Geffen School of Medicine	219,581,899
10	University of Pittsburgh School of Medicine	217,120,867
11	University of Michigan Medical School	213,169,712
12	Stanford University School of Medicine	207,983,087
13	Columbia University College of Physicians and Surgeons	206,221,353
14	University of California, San Diego—School of Medicine	182,427,601
15	Vanderbilt University School of Medicine	172,685,765
16	University of North Carolina at Chapel Hill School of Medicine	168,763,891
17	University of Texas, Southwestern Medical Center at Dallas	162,430,979
18	University of Alabama School of Medicine	159,576,895
19	University of Colorado System Health Sciences Center	158,631,658
20	Mount Sinai School of Medicine	148,321,247
21	Mayo Medical School	148,057,109
22	Case Western Reserve University School of Medicine	146,221,297
23	Emory University School of Medicine	140,494,101
24	Harvard Medical School	139,790,964
25	Yeshiva University Albert Einstein College of Medicine	129,827,962
26	University of Chicago Pritzker School of Medicine	124,946,536
27	University of Rochester School of Medicine	120,787,707
28	University of Iowa College of Medicine	120,338,303
29	Oregon Health and Science University School of Medicine	118,142,774
30	University of Minnesota School of Medicine—Twin Cities	116,598,707

Table 2.11 (continued)

Rank	Medical School ^a	Total Federal Funds Received for Conduct of R&D
31	University of Virginia School of Medicine	113,855,400
32	University of Wisconsin School of Medicine	112,443,954
33	Cornell University—Weill Medical College	109,559,176
34	University of Southern California Keck School of Medicine	107,512,986
35	New York University School of Medicine	106,717,559
36	Wake Forest University School of Medicine	103,314,301
37	Boston University School of Medicine	97,938,833
38	University of Maryland School of Medicine	96,112,532
39	University of Utah School of Medicine	94,336,624
40	Northwestern University, Chicago—Medical Center	92,415,757
41	University of Massachusetts, Medical School at Worcester	89,185,560
42	Indiana University School of Medicine at Indianapolis	88,137,186
43	Medical University of South Carolina	85,323,004
44	University of Cincinnati College of Medicine	84,025,831
45	Medical College of Wisconsin	80,151,361
46	Thomas Jefferson University—Jefferson Medical College	80,137,024
47	University of Miami School of Medicine	78,516,005
48	University of Texas, Medical Branch-Galveston	78,144,249
49	University of Texas, Health Science Center at Houston	77,354,824
50	University of Texas, Health Science Center at San Antonio	70,927,736
51	University of Arizona College of Medicine	65,563,658
52	University of Illinois at Chicago College of Medicine	64,936,955
53	Ohio State University College of Medicine and Public Health	63,661,780
54	University of Florida College of Medicine	62,635,081
55	University of California, Davis—School of Medicine	60,774,529
56	Dartmouth Medical School	60,774,511
57	UMDNJ—Robert Wood Johnson Medical School	57,610,612
58	Wayne State University School of Medicine	56,012,576
59	University of Vermont College of Medicine	55,148,661
60	University of California, Irvine—School of Medicine	54,424,609
61	University of Kentucky College of Medicine	53,986,489
62	University of Connecticut Health Center	52,807,496
63	Virginia Commonwealth University—Medical College of Virginia	52,359,055
64	Georgetown University Medical School	49,236,886
65	Rush University Medical College	46,929,666
66	UMDNJ—New Jersey Medical School	46,058,128
67	Tufts University School of Medicine	42,902,847
68	Pennsylvania State University College of Medicine	41,218,351
69	University of Arkansas—Medical Sciences	40,106,026
70	University of Tennessee System Health Science Center at Memphis	36,888,853
71	University of Kansas Medical Center	36,588,814
72	Brown University Medical School	35,250,077

Table 2.11 (continued)

Rank	Medical School ^a	Total Federal Funds Received for Conduct of R&D
73	University of New Mexico Health Science Center	34,270,183
74	State University of New York—Stony Brook Health Science Center	34,156,594
75	University of Oklahoma Health Sciences Center	32,103,443
76	Morehouse School of Medicine	29,200,036
77	Temple University School of Medicine	28,869,370
78	University of South Florida College of Medicine	28,743,812
79	University of Nebraska System Medical Center	28,145,257
80	University of Puerto Rico School of Medicine	27,693,231
81	University of Louisville School of Medicine	27,405,491
82	Medical College of Georgia	25,405,660
83	Loyola University Chicago Stritch School of Medicine	25,096,368
84	State University of New York—Health Science Center at Brooklyn	24,961,414
85	Tulane University School of Medicine	24,433,394
86	State University of New York—Buffalo School of Medicine & Biomedical Sciences	24,305,822
87	Saint Louis University School of Medicine	22,777,885
88	Meharry Medical College	21,981,183
89	Louisiana State University School of Medicine at New Orleans	20,700,295
90	New York Medical College	20,157,677
91	Charles R. Drew University of Medicine and Science	16,990,406
92	George Washington University School of Medicine and Health Sciences	16,494,785
93	Howard University College of Medicine	16,004,542
94	State University of New York—Health Science Center at Syracuse	15,970,579
95	Drexel University—Health Sciences	15,610,040
96	University of Mississippi Medical Center	14,223,773
97	Texas A&M University Health Science Center	13,922,263
98	Loma Linda University School of Medicine	13,200,505
99	University of Missouri at Columbia School of Medicine	11,798,199
100	University of Nevada School of Medicine	11,720,921
101	Medical College of Ohio	11,562,036
102	University of South Alabama College of Medicine	11,153,321
103	West Virginia University School of Medicine	10,646,187
104	Louisiana State University School of Medicine at Shreveport	10,535,566
105	University of Hawaii School of Medicine	10,418,793
106	Albany Medical College	10,113,727
107	Texas Tech University Health Sciences Center	8,381,658
108	University of North Dakota School of Medicine and Health Sciences	8,012,392
109	Wright State University School of Medicine	7,969,505
110	Michigan State University College of Human Medicine	7,336,003
111	University of South Dakota School of Medicine	6,877,606
112	Universidad Central del Caribe School of Medicine	6,666,018

Table 2.11 (continued)

Rank	Medical School ^a	Total Federal Funds Received for Conduct of R&D
113	Ponce School of Medicine	6,077,903
114	University of Missouri at Kansas City School of Medicine	6,059,137
115	Eastern Virginia Medical School—Medical College of Hampton Roads	5,956,505
116	Finch University of Health Sciences—The Chicago Medical School	5,903,512
118	East Carolina University Brody School of Medicine	3,544,209
119	Creighton University School of Medicine	3,531,708
120	University of South Carolina School of Medicine	3,248,573
121	Marshall University John C. Edwards School of Medicine	2,581,852
122	East Tennessee State University College of Medicine	2,541,027
123	University of Minnesota School of Medicine at Duluth	1,952,299
124	Northeastern Ohio Universities College of Medicine	1,380,226
125	Mercer University School of Medicine	1,324,462
126	The Uniformed Services University of the Health Sciences	0

^a Osteopathic, chiropractic, and podiatry schools not included.

OTHER CUTS THROUGH THE DATA

The ways in which one can use the information in this report to look at the distribution of federal R&D funds among the nation's universities and colleges are virtually endless. Tables C.1 through C. 22 in Appendix C present the most common of these views.

Tables C.11 through C.16 show the top 50 universities and colleges, including and excluding medical schools, that received R&D funds from, respectively, HHS, NSF, DOD, NASA, DOE, and USDA. Note that each of these tables includes details on how these federal R&D funds were conveyed to the institutions—i.e., via contracts, grants, or other mechanisms. Tables C.17 and C.18 provide details on the top 50 public and top 50 private universities and colleges that received federal R&D funds. The information in Table C.17 includes the federal R&D funds going to medical schools; that in Table C.18 excludes those funds. National averages are provided at the top of these two tables.

Tables C.19 and C.20 provide comparable information for land-grant and non-land-grant universities and colleges; Tables C.21 and C.22 do the same for historically black colleges and universities (HBCUs) and non-HBCUs. The first set, Tables C.19 and C.20, shows that the top individual land-grant institutions received far fewer federal R&D dollars in FY 2002 than their non-land-grant institution counterparts did. However, these two tables also show that the *average* land-grant institution received at least three times more federal R&D funds in FY 2002 than the *average* non-land-grant institution did. Similarly, Tables C.21 and C.22 show that the top individual HBCUs received far fewer federal R&D dollars in FY 2002 than their non-HBCU counterparts did. But unlike the situation with land-grant and non-land-grant insti-

tutions, the *average* HBCU did not receive more federal R&D funds in FY 2002 than the *average* non-HBCU did. Indeed, the *average* HBCU received substantially less than one-quarter of the federal R&D dollars that the *average* non-HBCU received. Viewed another way, the top recipient of federal R&D dollars among land-grant institutions in FY 2002 ranked ninth among the non-land-grant institutions when medical schools were included and fourth when medical schools were excluded. In contrast, the top recipient of federal R&D dollars among HBCUs in FY 2002 ranked 121st among non-HBCUs when medical schools were included and 126th when medical schools were excluded.

CONCLUSIONS AND IMPLICATIONS

CONCLUSIONS

Our analysis found that, between 1996 and 2002, total federal R&D funds going to universities and colleges grew from \$12.8 billion to \$21.4 billion, for an overall increase of 45.7 percent in constant 1996 dollars. To put this growth in perspective, the increase in federal R&D funds going to universities and colleges between FY 1996 and FY 2002 was more than double the overall increase in federal R&D funds going to *all* performers for the conduct of R&D in constant 1996 dollars (i.e., 45.7 percent versus 20.9 percent).

Sizable increases in funding to HHS (specifically for the National Institutes of Health) accounted for a substantial portion of this growth. The main recipients of these funds were medical schools. In FY 2002, 45 percent of all federal R&D funds that went to universities and colleges went directly to the internal units of these institutions that make up their medical schools. Because some states have no medical schools and other states have many, the distribution of federal R&D funds going to the universities and colleges in the various states is thus considerably skewed.

IMPLICATIONS FOR FEDERAL R&D PRIORITIES

The profile of federally funded R&D at universities and colleges that emerges from this analysis raises issues of proportionality. Specifically, in the current funding profile, approximately two-thirds of the federal funds going to universities and colleges for the conduct of R&D focus on only one field of science—life science—and federal R&D funding is concentrated at only a few research universities.¹ These facts raise the following questions:

- Are biomedical and health care issues so clearly at the top of the nation's agenda that they merit two-thirds of all federal funds provided to universities and colleges for the conduct of R&D?
- Are other critical national needs that have substantial R&D components (such as environment, energy, homeland security, and education) getting the attention they require?

¹ Eiseman, Koizumi, and Fossum, 2002, pp. 21–32.

- Are science and engineering students at universities and colleges that do not receive a notable share of federal R&D funds receiving a lower-quality education? Are their career opportunities hampered as a result?

IMPLICATIONS FOR DECISIONMAKING

The information on federal R&D funds going to the nation's universities and colleges can vary significantly, depending on the source of the data and how the data were collected. By taking a new approach to gathering data on the federal R&D funds going to universities and colleges, this analysis has endeavored to change the dialogue in this area, shifting it from a dialogue focused on the accuracy of numbers to a dialogue focused on federal policies.

This analysis provides information that should help clarify three important issues for university and college decisionmakers as well as federal agencies.

First, universities and colleges lack long-term, consistent data with which to gauge their success at acquiring R&D funding. In the absence of such data, credible comparisons among institutions cannot be made. This analysis enables all universities and colleges with R&D activity to know where they stand relative to other institutions in their ability to obtain federal R&D funds.

Second, the significance of how the federal R&D funds are conveyed to the universities and colleges (i.e., grant versus contract) should now be clearer. That is, this analysis disproves the persistent stereotype that *all* federal R&D funds are conveyed to universities and colleges via peer-reviewed project grants. As a result, all universities and colleges now have accurate information on the funding mechanisms the federal government has actually used to transmit R&D funds to them, so they can better assess the rights they have to any intellectual property resulting from such R&D.

Third, federal R&D agencies now have the information needed to better coordinate and set policy for their R&D “boot-strap” programs, such as EPSCoR, among themselves. That is, armed with the data in this report, federal R&D agencies can now specifically target all universities and colleges in the nation that truly need federal assistance to build their R&D capacity.

OTHER IMPLICATIONS

And finally, Walshok et al. suggest the growing importance of the connection between the amount of federal R&D funds going to universities and colleges and the general economy of the region in which these institutions are located.² For example, as noted in Chapter One, many universities and colleges are the major employers in a number of cities across the nation. And cities have found that the research their local universities are conducting—most of which is funded by the federal government—has tremendous economic value when it is actively shaped and fostered by skilled

² Walshok, Furtek, Lee, and Windham, 2002, pp. 27–42.

innovators and entrepreneurs. To cite one example, San Diego made effective use of local university research in successfully restructuring the economy of the city and the region.³ This topic merits further exploration, given the evidence that the nation's universities and colleges are vital assets upon which the R&D investment decisions of individual federal agencies have a tremendous influence.

³ Walshok, Furtek, Lee, and Windham, 2002, pp. 27–42.

The information on federal research and development (R&D) presented in this report comes from the RaDiUS (Research and Development in the United States) database. The RAND Corporation created RaDiUS, in cooperation with the National Science Foundation (NSF), to track, at both the aggregate and the detailed level, all the activities that are supported each fiscal year with the funds officially reported as paying for (i.e., purchasing) the “conduct of R&D” in the Budget of the U.S. Government. As such, RaDiUS does not attempt to independently define which federally supported activities do and do not constitute R&D. Instead, RaDiUS starts with the baseline of federal R&D funding that is presented annually in the federal budget and systematically follows all dollars officially designated as “conduct of R&D” dollars through the federal bureaucracy’s many layers to where they are actually spent—i.e., RaDiUS tracks the transformation of federal R&D Budget Authority into federal R&D Obligations. By taking this approach, RaDiUS effectively defines R&D as the activities on which federal dollars that have been officially designated as R&D dollars are spent.

This approach allows one to distinguish between federally funded activities that are officially designated as R&D activities and those that are seen as non-R&D activities. Specifically, even though all federally supported R&D activities involve the study and analysis of various subjects or phenomena, the federal government sees “R&D” and “studies and analyses” as two mutually exclusive categories and therefore tracks them separately. While the dividing line between these two categories may seem blurry to many, federal procurement officials decide which activities fall into which category on a daily basis. In FY 2002, these officials determined that 40,251 of the contracts that the federal government had awarded were R&D because they involved

increasing knowledge in science; applying increased scientific knowledge or exploiting the potential of scientific discoveries and improvements in technology to advance the state of art; and[/or] systematically using increases in scientific knowledge and advances in state of art to design, develop, test, or evaluate new products or services. (Federal Procurement Report 2002.)

In contrast, these same officials determined that 8,714 of the contracts that had been awarded involved “studies and analyses” rather than R&D, because they were “organized, analytic assessments that provide insights for understanding complex issues or improving policy development or decision making” (Federal Procurement Report 2002).

As a consequence, the 40,251 federal contracts designated as R&D are contained in RaDiUS and therefore were part of this analysis, whereas the 8,714 contracts designated as studies and analyses are not. To put this in the specific context of institutions of higher education, the federal government made a total of 117,517 R&D awards to the nation's universities and colleges in FY 2002. Of these, 108,119 were grants (10,516 being formula grants), 6,817 were cooperative agreements, and 2,581 were contracts. In contrast, the same universities and colleges received a total of 235 federal contracts for the conduct of "studies and analyses" in FY 2002.

The use of the terms *science* and *technology* in the context of the federal government can also be a source of confusion when defining federal R&D activities. The confusion in this case flows from the fact that the federal government uses *science* and *technology* to describe the functional missions, in whole or part, of three—but only three—of the 24 federal agencies that fund R&D activities every year. Specifically, all of the funds controlled by the National Science Foundation and part of the funds controlled by the National Aeronautics and Space Administration and the Department of Energy are characterized, for federal budgeting purposes, as supporting "General Science, Space, and Technology" activities (Functional Classification 250, OMB Circular A-11, Exhibit 79B). However, only a portion of the "General Science, Space, and Technology" funds each of these agencies spends is actually for "R&D" activities.

Consequently, when discussing this particular aspect of the federal budget, great care must be taken not to view *R&D* and *science and technology* as synonymous. Indeed, to minimize the confusion between these terms, OMB does not use *science* or *technology* to define "R&D" in its instructions to federal agencies regarding annual budget requests (OMB Circular A-11, Section 84 and Exhibit 79B). In recent years, however, OMB has prepared a special analysis of the "Federal Science and Technology (FS&T) Budget" that encompasses "nearly all of federal basic research, over 80 percent of federal applied research, and about half of civilian development" in an effort to facilitate the tracking of research and nondefense development through the budget and appropriations process (Budget of the U.S. Government, Analytical Perspectives). Use of the terms *science* and *technology* in the context of the FS&T Budget, however, is not parallel to that in the functional categories of the budget; and, in turn, neither use of *science* and *technology* equates to the term *R&D* as used in the context of the federal budget.

To follow the R&D dollars as they flow through the federal bureaucracy, RaDiUS draws on the data that the government's budget, transaction, and general tracking systems already collect and weaves the data together to form a complete picture of federal R&D funding from its most aggregate to its most detailed level. Because 75 percent of all federal R&D dollars that descend through the rungs of the federal bureaucracy and are ultimately spent by federal agencies (i.e., obligated) leave the federal government in the form of contracts, grants, and cooperative agreements, the vast majority of information in the most detailed level of RaDiUS comes from two sources: the Federal Procurement Data System (FPDS), which tracks all federal contracts, and the Federal Assistance Awards Data System (FAADS), which tracks all federal grants and cooperative agreements.

The Federal Procurement Data Center (FPDC), a unit of the U.S. General Services Administration (GSA), maintains and operates the FPDS. FPDC was created by the Office of Federal Procurement Policy Act in 1974 (PL 93-400), which mandated that the Administrator of the Office of Federal Procurement Policy “establish an automated system for collecting, evaluating, and disseminating information about Federal procurement contracts” to facilitate federal planning, analysis, and general program evaluation. Housed initially inside the Department of Defense, the FPDC began collecting information in 1979 on all contracts the federal government awards. All this information was to be placed in FPDS. In 1982, FPDC and the FPDS were moved to GSA, where they remain today. The FPDS contains summary information on all contracts awarded by federal agencies with a value of less than \$25,000 (i.e., small purchases) and detailed information on all contracts awarded by federal agencies with a value of over \$25,000 (i.e., large contracts). Among the details collected about every large contract in the FPDS is the “purpose” of the contract, so the data elements in the FPDS tell whether the purpose of the contract was to obtain airplanes, electricity, training, etc., or to conduct R&D. These determinations are made by the procurement officers in each federal agency, who, being directly involved in negotiating the terms and conditions of the contract, are uniquely situated to know the specific purpose for which a contract is awarded (i.e., whether it is for R&D or something else). Hence, by using the FPDS, one can identify every R&D contract the federal government has awarded and determine who is conducting the R&D, where they are conducting it, and how much they are authorized to spend on it.

The FAADS is the FPDS’s counterpart in that it collects detailed information on all “nonprocurement” awards made by the federal government—i.e., on all grants and cooperative agreements (as well as on loans, direct payments, etc.) made by any federal agency. The FAADS is authorized by Titles 13 and 31 of the U.S. Code, as well as an OMB special designation, and is operated and maintained by the Census Bureau in the Department of Commerce. Pursuant to this authority, federal agencies must provide detailed information to the Census Bureau on virtually every financial assistance award (i.e., nonprocurement award) made to a nonfederal party and have done so quarterly since 1982. In turn, the Census Bureau makes this information available to Congress and the general public for use in planning, analysis, and program evaluation. Among the details the system collects on each financial assistance award are the federal program making the award, the name and location of the award recipient, and the amount of the assistance award. Information is also collected on the type of entity receiving the award (e.g., state-controlled institution of higher education, privately controlled institution of higher education), as well as on the type of the assistance provided to the entity (e.g., project grant, formula grant, cooperative agreement). Because the FAADS does not directly collect information on which assistance awards involve the conduct of R&D, it has been critically important to the creation and maintenance of RaDiUS that every award contained in the FAADS is directly linked to one of the programs listed in the Catalog of Federal Domestic Assistance (CFDA), which does indicate which federal programs involve the conduct of R&D.

The CFDA is a compendium of all the programs, projects, services, and other types of assistance provided to nonfederal entities by all agencies of the federal government. It was created by the Federal Program Information Act (PL 95-220) in 1977, which re-

quired OMB “to establish and maintain a computerized program information system which is capable of identifying all existing Federal domestic assistance programs.” PL 98-169 transferred the operational responsibilities for the CFDA from OMB to GSA, which has maintained it since 1984. GSA updates the CFDA every year, with the assistance of OMB, so that parties interested in learning about any type of assistance (both financial and nonfinancial) offered by the federal government need to consult just this one source to find out about all such assistance available. Each CFDA listing contains a detailed description of the purpose or objective of the federal program, the type of assistance the program provides, the program’s eligibility requirements, and how to apply for the assistance. These listings also indicate which federal agency is providing the assistance and the budget or treasury account from which any program funds come. The CFDA includes all federal programs that provide grants or cooperative agreements to support R&D activities, and the program descriptions state whether or not they support R&D. Consequently, one can identify the R&D grants and cooperative agreements that federal programs have awarded by connecting the CFDA numbers carried on the individual awards in the FAADS to the programs listed in the CFDA that have R&D as their stated objective. For example, all the FAADS awards carrying the CFDA number 10.219 involve R&D, because the stated objective of the CFDA Program 10.219 is “to carry out research focused on environmental effects of biotechnology.”

The R&D information pulled from the FPDS, FAADS, and CFDA is the most accurate and reliable such information available, because all three of these official federal data systems are closely monitored, regularly updated, and promptly corrected when errors are discovered. Such is also the case with the data in RaDiUS that are pulled directly from the MAX Budget Information System, which is the Executive Office of the President’s data system for collecting, validating, analyzing, and publishing the Budget of the U. S. Government (i.e., the President’s Budget). The data from the MAX Budget Information System is the official source of information on how many federal dollars are allocated each fiscal year to support the conduct of R&D, and hence it is the funding baseline on which RaDiUS is built. In short, RaDiUS pulls data from the MAX Budget Information System, FPDS, FAADS, and CFDA, and augments these data with data from many other, smaller information collections scattered throughout the federal government. RaDiUS then systematically weaves all these data together using Treasury Account numbers, Federal Information Processing Standards (FIPS) codes, award numbers, and/or comparable identifying codes carried on each individual record to create a complete picture of the R&D work being conducted with the support of federal funds. The entities that actually conduct this federally supported R&D include federal laboratories, national laboratories, nonprofit organizations, for-profit corporations, and the nation’s universities and colleges.

Because our primary focus in the analysis covered by this report was on the federal research and development (R&D) awards that go to the nation’s universities and colleges, we created a subset of the RaDiUS (Research and Development in the United States) database records that contained only the federal R&D awards made to four-year accredited public and private U.S. universities and colleges. This “extract file” included every permutation of every variation of every name under which a university or college might be conducting business with the federal government. To ease data handling and facilitate our analysis, we electronically separated the “extract file” into 52 spreadsheets—one for each of the 50 states, the District of Columbia, and Puerto Rico. We then manually checked each spreadsheet to ensure that all entities identified as universities or colleges in the records were indeed such institutions and, most important, to “normalize” (i.e., standardize) their names. The latter process took several months to complete, because it was very common to find that a single university or college appeared in the assembled records under a variety of names.

Please note that the federal funds universities received to manage and operate federally funded R&D centers (FFRDCs) are *not* included in this report. Specifically, the funds excluded from this report are those the California Institute of Technology received for the Jet Propulsion Laboratory; those Stanford University received for the Linear Accelerator Center; those the University of California received for Lawrence Berkeley, Lawrence Livermore, and Los Alamos National Laboratories; those the University of Chicago received for Argonne National Laboratory; those Iowa State University received for Ames Laboratory; those the Massachusetts Institute of Technology received for Lincoln Laboratory; those Princeton University received for the Plasma Physics Laboratory; those Cornell University received for the National Astronomy and Ionosphere Center; and those Carnegie Mellon University received for the Software Engineering Institute. While all these laboratories annually receive substantial amounts of federal R&D funds, they are not legally a part of the universities that manage and operate them. Instead, the federal government owns all these laboratories. As a consequence, no federal R&D funds that these laboratories receive are credited to the universities that manage and operate them.

The amount of data that needed to be prepared for analysis was substantial. Specifically, we wanted to present information on the total federal funds going to universities and colleges in the 50 states, the District of Columbia, and Puerto Rico for the conduct of R&D for a number of fiscal years to reveal overall trends. We also wanted

to take a detailed, in-depth look at the internal dynamics of the federal R&D funding process for one fiscal year (i.e., FY 2002) to identify how every individual university and college within the 50 states, the District of Columbia, and Puerto Rico fared in the competition for federal funds with which to conduct R&D. To do this, the universe of like institutions was identified for every type of university and college that was found to be receiving federal R&D funds. For example, when it was discovered that one college of chiropractic medicine received federal R&D funds, all accredited colleges of chiropractic medicine were identified and added to the list of higher education institutions that were eligible to receive federal R&D funds (see Appendix D for a complete list of these institutions). The colleges of osteopathic medicine and optometry were treated similarly. Because no school of podiatry receives federal R&D funds, the list of eligible institutions contained in Appendix D does not include these schools. Please note that one school that does indeed grant a degree in podiatry is included in this report, however, because it also grants degrees in several other fields of study that routinely receive federal R&D funds. The sole exception to this general rule of inclusion involves colleges of Oriental medicine. When we found that one school of Oriental medicine was receiving federal R&D funds, we also discovered that there is no identifiable universe of such institutions in the United States; therefore, this report includes only one institution of this type.

In addition, we identified a number of potentially important characteristics of individual universities and colleges and tied them directly to each individual institution. For example, to determine whether public universities and colleges fare differently from private universities and colleges in their bids for federal R&D funds, we individually identified all four-year accredited public and private universities and colleges in the nation and specifically “tagged” their R&D awards in the data set. Similar steps also tagged federal R&D awards going to land-grant universities and colleges and Historically Black Colleges and Universities (HBCUs), since these are the other dimensions that reports on federal R&D funding for academic institutions commonly note. All this was in addition to manually checking that the awards that went to multicampus universities were attributed to the correct campuses. The latter activity went more smoothly than anticipated because, for most multicampus institutions, the specific campus receiving the federal funds was indeed noted. In a few instances, however, it was necessary to contact the institution directly to verify which component campuses had received which federal R&D awards.

By far the most complicated part of preparing the data for this analysis was identifying all the awards that went to medical schools. This distinction is of critical importance for this analysis for two reasons. First, from the outset of this study, we suspected that a substantial amount of the federal R&D funds traditionally viewed as going generally to universities and colleges actually went to the medical schools within these institutions. Second, while 126 accredited medical schools are affiliated with the nation's universities and colleges, these schools are not evenly distributed among the states. Specifically, the states of New York, California, Texas, and Illinois are home to 12, 9, 7, and 7 medical schools, respectively; the states of Arizona, Colorado, Hawaii, Indiana, Iowa, Kansas, Mississippi, Nevada, New Hampshire, New Mexico, North Dakota, Oklahoma, Oregon, Rhode Island, Utah, and Vermont have only one medical school each; and the states of Alaska, Delaware, Idaho, Maine,

Montana, and Wyoming have none. Consequently, to be fair to the last group of states, it was critical to be able to determine the precise effects that the presence of a medical school(s) had on the overall ability of a state's universities and colleges to acquire federal R&D funds. So, to facilitate this analysis, it was necessary to take great care to "tag" accurately all individual federal R&D awards that went to all medical schools. Because the vast majority of federal R&D funds going to medical schools come from NIH, a special data file from NIH that identified all of the awards that it made to medical schools in FY 2002 was of tremendous help in this endeavor.

The one additional noteworthy adjustment we made to the data for this analysis was to change the characterization of the grants made pursuant to CFDA Program 10.216 from "project grants" to "formula grants." While this change affected only a handful of the many thousands of R&D awards analyzed in this study, it was important because the R&D grants awarded under CFDA Program 10.216 were available to only 18 universities and colleges in the entire nation, which were the same institutions that received "formula grants" under a companion CFDA program operated by the Department of Agriculture (i.e., CFDA Program 10.205). Ideally, this change would have ensured that all the awards described as "project grants" in this analysis had been awarded pursuant to a peer-review process. Such is not the case, however, because a number of the project grants contained in RaDiUS and included in this report were congressional earmarks. That is, they were special allocations of federal R&D funds that Congress made to specific universities and colleges without the benefit of an impartial assessment of the scientific merits of the R&D to be conducted and without consideration of whether the university or college receiving the funds was actually the institution best able to conduct the R&D.

In FY 2002, congressional earmarks of federal R&D funds for universities and colleges totaled \$1.8 billion (Chronicle of Higher Education, 9/27/02). Had all of these earmarks involved the conduct of R&D, they would have constituted 8.4 percent of all the federal R&D funds showcased in this report. However, a substantial amount of them were for constructing R&D facilities or acquiring major R&D equipment, neither of which are tracked in RaDiUS or analyzed in this study. A review of the individual earmarks that involve the conduct of R&D, as opposed to the construction of R&D facilities or the acquisition of major R&D equipment, indicates that between 6 and 7 percent of the R&D funds included in RaDiUS and this study involve congressional earmarks. While at least some of the R&D awards that all major R&D agencies make annually are congressional earmarks, none of the resulting grants that move these funds to their designated recipients is specifically "tagged" in agency data systems as being an earmark. As a result, individual earmarks cannot be systematically identified and, therefore, are not separately analyzed in this report.

Table C.1 (Detail)—Federal Funds for Conduct of R&D Provided in FY 1996–2002 to Universities and Colleges, Including Medical Schools, by State in Rank Order

Table C.2 (Detail)—States Ranked According to Total Federal Funds Received for Conduct of R&D in FY 2002 by Their Resident Universities and Colleges, Including and Excluding Medical Schools

Table C.3 (Detail)—Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Including Medical Schools, by State

Table C.4 (Detail)—Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Excluding Medical Schools, by State

Table C.5 (Detail)—Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Excluding Medical Schools, by State (with highlights)

Table C.6 (Detail)—Federal Funds for Conduct of R&D Provided in FY 2002 to Universities and Colleges, Including Medical Schools, by State in Rank Order

Table C.7 (Detail)—Federal Funds for Conduct of R&D Provided in FY 2002 to Universities and Colleges, Excluding Medical Schools, by State in Rank Order

Table C.8 (Detail)—Number of Universities and Colleges Receiving Federal Funds for Conduct of R&D in FY 2002, by State and by Types of Degrees Granted by Universities and Colleges Located in State

Table C.9 (Detail)—Top 100 Universities and Colleges, Including and Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.10 (Detail)—Federal Funds Provided to Medical Schools for Conduct of R&D in FY 2002, by Medical School in Rank Order

Table C.11—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Health and Human Services in FY 2002 for Conduct of R&D

Table C.12—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by National Science Foundation in FY 2002 for Conduct of R&D

Table C.13—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Defense in FY 2002 for Conduct of R&D

Table C.14—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by National Aeronautics and Space Administration in FY 2002 for Conduct of R&D

Table C.15—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Energy in FY 2002 for Conduct of R&D

Table C.16—Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Agriculture in FY 2002 for Conduct of R&D

Table C.17—Top 50 Public and Private Universities and Colleges, Including Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.18—Top 50 Public and Private Universities and Colleges, Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.19—Top 50 Land-Grant and Non-Land-Grant Universities and Colleges, Including Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.20—Top 50 Land-Grant and Non-Land-Grant Universities and Colleges, Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.21—Top 50 Historically Black Colleges and Universities and Non-Historically Black Colleges and Universities, Including Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.22—Top 50 Historically Black Colleges and Universities and Non-Historically Black Colleges and Universities, Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Table C.23—Affiliated Research Institutes Provided Federal Funds in FY 2001 and FY 2002 for Conduct of R&D (Obligations)

Table C.1 (Detail)

Federal Funds for Conduct of R&D Provided in FY 1996–2002 to Universities and Colleges, Including Medical Schools, by State in Rank Order (Obligations)

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
Total	12,773,136,523	12,667,037,501	14,456,466,532	15,889,575,114	17,537,140,915	19,114,629,811	21,351,571,248
Rank							
1	CA 1,754,177,823	CA 1,746,618,702	CA 2,011,157,772	CA 2,108,251,882	CA 2,370,646,912	CA 2,504,743,650	CA 2,726,137,127
2	NY 1,058,650,167	NY 1,092,610,759	NY 1,212,669,176	NY 1,325,902,292	NY 1,450,728,223	NY 1,562,274,213	NY 1,669,751,546
3	MA 872,889,061	MA 834,235,391	MD 978,862,619	MA 1,108,251,992	MA 1,129,661,271	PA 1,162,963,149	PA 1,326,506,905
4	MD 791,108,381	PA 767,429,069	MA 938,406,824	MD 1,053,618,554	MD 1,100,954,880	TX 1,130,203,378	MD 1,303,383,938
5	PA 754,439,707	MD 724,765,377	PA 904,389,105	PA 1,006,354,292	PA 1,094,332,171	MA 1,096,071,930	TX 1,255,975,091
6	TX 697,769,881	TX 685,272,705	TX 774,603,382	TX 866,850,912	TX 959,410,484	MD 1,033,982,541	MA 1,195,889,215
7	IL 541,980,429	NC 501,120,442	NC 560,449,293	IL 642,015,045	IL 664,142,524	IL 760,323,773	NC 858,107,200
8	NC 500,781,211	IL 491,784,486	IL 554,504,438	NC 566,297,327	NC 652,150,059	NC 743,957,529	IL 817,518,579
9	MI 416,724,208	MI 422,638,408	MI 468,825,109	MI 507,317,569	MI 551,461,756	MI 611,274,128	MI 658,876,154
10	WA 358,502,477	WA 362,092,030	WA 390,884,405	WA 437,031,870	OH 466,075,716	WA 542,784,551	OH 587,807,989
11	OH 336,007,024	OH 335,871,362	OH 366,814,227	MO 417,317,446	WA 465,794,050	OH 524,586,086	WA 576,558,410
12	MN 272,682,593	MN 282,123,604	FL 332,032,142	OH 407,376,287	FL 424,925,320	MO 447,941,609	MO 519,077,211
13	GA 263,383,066	CO 277,921,613	CO 317,730,525	FL 335,342,203	MO 402,987,755	MO 444,839,482	FL 491,200,317
14	WI 260,922,560	GA 271,233,953	GA 316,271,181	CO 334,922,362	GA 384,175,661	GA 420,212,351	GA 488,574,581
15	MO 259,808,209	FL 268,135,784	MO 307,621,572	CO 325,256,295	CO 368,938,200	WI 409,837,035	WI 468,179,728
16	CO 258,712,803	MO 267,632,685	MN 296,226,770	MN 320,029,860	WI 368,195,134	MN 408,555,101	MN 464,629,859
17	CT 255,277,182	CT 261,991,334	WI 281,444,757	CT 317,916,403	MN 359,731,524	CO 407,752,561	CO 433,677,223
18	FL 253,982,458	WI 253,253,688	CT 276,961,806	WI 316,626,490	CT 345,634,983	CT 366,620,711	CT 413,962,477
19	AL 240,450,165	AL 243,550,451	AL 270,527,415	AL 268,847,687	AL 305,741,381	VA 356,259,940	AL 388,006,004
20	NJ 204,862,277	VA 207,007,786	VA 233,793,927	VA 262,395,535	VA 292,440,691	AL 346,723,605	VA 386,388,412
21	VA 204,333,127	NJ 203,236,575	NJ 227,541,509	NJ 233,117,738	NJ 285,143,095	TN 288,067,012	TN 383,060,903
22	IN 198,338,988	IN 198,681,054	IN 201,268,969	IN 215,971,524	IN 253,802,777	OR 279,433,242	NJ 313,982,368
23	OR 157,094,881	OR 169,582,465	OR 182,530,925	OR 215,865,391	OR 231,079,177	NJ 270,560,449	OR 287,504,153
24	AZ 156,513,275	TN 154,082,816	AZ 175,194,900	AZ 199,128,177	AZ 219,795,507	IN 262,320,253	IN 285,031,109
25	TN 145,519,994	AZ 145,770,511	IA 163,990,789	TN 185,838,091	TN 218,360,105	IA 224,406,949	AZ 250,382,226
26	DC 141,738,475	IA 139,458,458	TN 156,984,503	IA 172,192,691	IA 179,348,508	AZ 218,153,414	IA 246,481,253
27	IA 140,623,954	DC 130,789,671	UT 150,922,202	UT 161,457,381	UT 167,003,337	DC 193,949,001	DC 216,443,188
28	LA 134,401,360	UT 129,642,914	DC 134,726,986	DC 154,177,941	DC 155,146,752	UT 189,398,843	UT 215,341,604
29	UT 129,889,107	LA 120,250,883	LA 128,569,611	LA 142,217,255	LA 146,770,724	LA 161,944,124	LA 179,616,932
30	NM 95,000,338	SC 90,379,690	SC 110,756,321	SC 108,567,058	SC 123,282,423	SC 145,973,794	SC 167,478,467
31	SC 80,218,525	NM 82,161,428	NM 90,577,500	NM 102,838,940	KY 114,445,751	NM 139,557,910	KY 149,722,190
32	KY 72,566,261	RI 71,033,635	KS 85,072,663	KY 90,583,263	NH 108,630,511	KY 134,336,648	NH 138,113,578
33	NH 70,323,297	KY 66,712,320	KY 74,625,047	KS 90,579,440	NM 103,805,843	KS 130,601,443	HI 133,937,209
34	RI 69,935,683	NH 63,964,988	NH 71,091,392	NH 88,244,091	KS 101,257,013	NH 118,837,532	NM 133,105,276
35	HI 62,445,456	KS 63,404,166	MS 68,604,389	MS 82,592,562	MS 95,986,845	HI 109,150,933	MS 124,820,537
36	KS 61,191,182	HI 61,205,137	OK 68,565,969	RI 78,635,167	RI 94,608,348	MS 104,552,708	KS 119,453,613
37	OK 51,292,156	OK 53,833,420	RI 65,055,084	HI 76,853,961	HI 86,273,402	OK 87,347,421	OK 118,597,959
38	MS 49,708,493	MS 48,650,924	HI 63,920,240	OK 68,268,018	OK 81,116,543	RI 87,063,771	RI 103,882,237
39	WV 44,699,498	WV 41,298,274	PR 47,948,746	PR 53,159,207	NE 68,386,069	NE 81,741,709	NE 98,955,585
40	NE 44,112,807	NE 39,899,729	NE 47,511,028	NE 52,747,613	PR 63,743,796	VT 69,515,601	PR 88,506,230
41	AR 38,313,069	PR 39,166,840	WV 44,186,887	AR 49,308,852	AR 61,956,309	AR 65,934,097	VT 74,093,954
42	PR 38,251,579	AR 37,891,852	AR 42,505,448	VT 47,323,399	VT 60,123,681	AK 64,235,688	WV 71,325,975
43	NV 37,562,913	VT 35,433,468	VT 40,511,526	MT 43,959,318	DE 51,556,763	MT 63,215,176	AR 69,337,907
44	VT 36,359,098	NV 35,324,381	NV 38,779,559	AK 41,961,194	NV 49,408,501	PR 62,911,233	NV 60,261,205
45	DE 32,624,333	DE 28,634,083	DE 35,263,135	AK 40,079,251	AK 48,501,789	PR 56,855,068	WV 57,596,858
46	ND 30,871,279	AK 27,039,654	MT 33,428,163	WV 37,864,168	WV 45,746,606	WV 56,618,116	MT 56,119,739
47	MT 25,966,966	MT 26,260,192	AK 28,117,189	NV 36,091,740	MT 43,630,013	DE 44,998,017	DE 47,995,313
48	AK 23,087,355	ND 19,134,376	ND 24,622,538	ND 30,027,853	ND 32,657,676	ND 32,989,628	ND 40,566,199
49	WY 16,947,277	ID 13,810,206	ME 18,092,723	ME 20,257,018	ID 26,074,081	ID 27,658,187	ID 34,033,379
50	ID 12,009,504	ME 13,643,060	WY 17,417,110	ID 17,180,893	WY 21,275,097	ME 24,318,525	ME 20,303,717
51	ME 9,999,930	WY 10,583,788	ID 13,991,212	WY 14,710,314	SD 20,241,395	WY 18,637,306	WY 18,144,227
52	SD 8,084,681	SD 8,787,514	SD 9,915,804	SD 9,853,302	ME 19,853,783	SD 17,438,690	SD 17,368,192

Table C.2 (Detail)
States Ranked According to Total Federal Funds Received for Conduct of R&D
in FY 2002 by Their Resident Universities and Colleges,
Including and Excluding Medical Schools

Including Medical Schools			Excluding Medical Schools			Change in Rank of State
Total	21,351,571,248		Total	11,740,857,144		
Rank	State	Amount	Rank	State	Amount	
1	California	2,726,137,127	1	California	1,577,809,399	0
2	New York	1,669,751,546	2	Maryland	842,777,548	2
3	Pennsylvania	1,326,506,905	3	Massachusetts	826,071,011	3
4	Maryland	1,303,383,938	4	New York	718,650,729	-2
5	Texas	1,255,975,091	5	Pennsylvania	603,409,196	-2
6	Massachusetts	1,195,889,215	6	Texas	572,387,308	-1
7	North Carolina	858,107,200	7	Illinois	452,494,576	1
8	Illinois	817,518,579	8	Michigan	382,157,863	1
9	Michigan	658,676,154	9	North Carolina	335,750,207	-2
10	Ohio	587,807,989	10	Washington	325,622,993	1
11	Washington	576,558,410	11	Florida	321,305,419	2
12	Missouri	519,077,211	12	Georgia	292,150,322	2
13	Florida	491,200,317	13	Wisconsin	275,584,413	2
14	Georgia	488,574,581	14	Colorado	275,045,565	3
15	Wisconsin	468,179,728	15	Ohio	272,987,314	-5
16	Minnesota	464,629,859	16	Alabama*	217,275,788	3
17	Colorado	433,677,223	17	Virginia	214,217,452	3
18	Connecticut	413,962,477	18	New Jersey	210,313,628	4
19	Alabama*	388,006,004	19	Minnesota	198,021,744	-3
20	Virginia	386,388,412	20	Indiana	196,893,923	4
21	Tennessee	383,060,903	21	Arizona	184,818,568	4
22	New Jersey	313,982,368	22	Oregon	169,361,379	1
23	Oregon	287,504,153	23	Missouri	162,647,315	-11
24	Indiana	285,031,109	24	Tennessee	148,964,075	-3
25	Arizona	250,382,226	25	DC	134,706,975	2
26	Iowa	246,481,253	26	Iowa	126,142,950	0
27	DC	216,443,188	27	Louisiana*	123,947,677	2
28	Utah	215,341,604	28	Hawaii	123,518,416	5
29	Louisiana*	179,616,932	29	Utah	121,004,980	-1
30	South Carolina*	167,478,467	30	Connecticut	115,418,194	-12
31	Kentucky*	149,722,190	31	Mississippi*	110,596,764	4
32	New Hampshire	138,113,578	32	New Mexico*	98,835,093	2
33	Hawaii	133,937,209	33	Oklahoma*	86,494,516	4
34	New Mexico*	133,105,276	34	Kansas*	82,864,799	2
35	Mississippi*	124,820,537	35	South Carolina*	78,906,890	-5
36	Kansas*	119,453,613	36	New Hampshire	77,339,067	-4
37	Oklahoma*	118,597,959	37	Rhode Island	68,632,160	1
38	Rhode Island	103,882,237	38	Kentucky*	68,330,210	-7
39	Nebraska*	98,955,585	39	Nebraska*	67,278,620	0
40	Puerto Rico*	88,506,230	40	West Virginia*	58,097,936	2
41	Vermont*	74,093,954	41	Alaska*	57,596,858	4
42	West Virginia*	71,325,975	42	Montana*	56,119,739	4
43	Arkansas*	69,337,907	43	Nevada	48,540,284	1
44	Nevada	60,261,205	44	Puerto Rico*	48,069,078	-4
45	Alaska*	57,596,858	45	Delaware	47,995,313	2
46	Montana*	56,119,739	46	Idaho*	34,033,379	3
47	Delaware	47,995,313	47	North Dakota*	32,553,807	1
48	North Dakota*	40,566,199	48	Arkansas*	29,231,881	-5
49	Idaho*	34,033,379	49	Maine*	20,303,717	1
50	Maine*	20,303,717	50	Vermont*	18,945,293	-9
51	Wyoming*	18,144,227	51	Wyoming*	18,144,227	0
52	South Dakota*	17,368,192	52	South Dakota*	10,490,586	0

* Participant in NSF's EPSCoR Program.

Table C.3 (Detail)

Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Including Medical Schools, by State

Total	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
Total	14,213,893,427	66.6	2,355,384,295	11.0	1,472,980,562	6.9	1,101,345,580	5.2	808,643,706	3.8	539,021,309	2.5	860,302,369	4.0							
Rank																					
1	CA	1,770,423,548	64.9	CA	396,534,320	14.5	MD	257,069,709	19.7	MD	235,254,706	18.0	CA	104,404,035	3.8	CA	30,035,377	1.1	CA	75,722,077	2.8
2	NY	1,287,842,293	77.1	IL	159,778,061	19.5	CA	186,784,976	6.9	CA	162,232,794	6.0	MA	85,908,722	7.2	TX	23,305,477	1.9	CO	40,703,529	9.4
3	PA	963,113,074	72.6	NY	155,328,228	9.3	PA	145,254,728	11.0	CO	58,967,180	13.6	NY	72,111,288	4.3	NC	19,991,635	2.3	NY	40,080,282	2.4
4	TX	922,007,488	73.4	MA	136,630,645	11.4	TX	96,449,483	7.7	TX	47,501,480	3.8	TX	37,876,005	3.0	IA	19,525,867	7.9	MA	39,387,685	3.3
5	MA	807,521,954	67.5	PA	107,712,935	8.1	MA	73,121,711	6.1	MA	44,874,524	3.8	PA	31,772,743	2.4	MI	19,092,994	2.9	TX	38,311,150	3.1
6	MD	687,867,715	52.8	MI	103,615,051	15.7	NY	60,531,072	3.6	AL	40,323,844	10.4	IL	29,163,528	3.6	GA	18,449,476	3.8	FL	34,620,105	7.0
7	NC	684,221,305	79.7	TX	90,524,008	7.2	IL	56,983,188	7.0	FL	35,864,083	7.3	MI	26,345,677	4.0	NY	18,198,719	1.1	MD	34,071,605	2.6
8	IL	523,948,402	64.1	WA	75,700,665	13.1	OH	46,131,297	7.8	NY	35,659,664	2.1	WI	26,239,968	5.6	MS	17,334,616	13.9	NC	33,069,724	3.9
9	MI	440,601,814	66.9	FL	73,871,024	15.0	FL	45,681,360	9.3	VA	31,215,624	8.1	FL	25,585,705	5.2	PA	16,439,833	1.2	PA	31,573,903	2.4
10	MO	439,410,297	84.7	MD	67,029,045	5.1	NC	36,927,314	4.3	PA	30,639,689	2.3	GA	25,585,294	5.2	FL	15,796,031	3.2	NH	30,173,488	21.8
11	WA	415,308,889	72.0	GA	63,876,081	13.1	CA	35,907,044	7.3	UT	25,199,511	11.7	NV	24,387,267	40.5	OH	15,187,231	2.6	OR	28,053,891	9.8
12	OH	414,791,550	70.6	AZ	63,506,113	25.4	MS	28,912,462	23.2	HI	24,576,242	18.3	AL	22,446,090	5.8	AL	14,823,972	3.8	VA	25,468,873	6.6
13	MN	364,311,645	78.4	VA	59,170,053	15.3	MI	28,120,281	4.3	OH	23,506,085	4.0	WA	22,378,674	3.9	WI	14,205,440	3.0	MI	24,718,559	3.8
14	CT	353,136,806	85.3	IN	58,594,943	20.6	NM	27,842,588	20.9	AZ	19,509,270	7.8	SC	19,584,959	11.7	MN	14,143,068	3.0	IL	21,345,735	2.6
15	WI	320,414,824	68.4	CO	57,088,679	13.2	NJ	26,060,041	8.3	GA	18,307,064	3.7	IN	18,800,219	6.6	IL	13,417,231	1.6	WI	20,633,243	4.4
16	GA	312,558,263	64.0	NC	56,668,798	6.6	VA	25,026,321	6.5	WV	18,013,317	25.3	NC	14,920,018	1.7	MO	13,196,734	2.5	OH	20,248,675	3.4
17	TN	301,992,312	78.8	NJ	55,673,654	17.7	WI	22,721,408	4.9	MI	16,181,778	2.5	NJ	14,044,202	4.5	VA	12,789,546	3.3	AK	18,769,079	32.6
18	AL	273,481,043	70.5	OH	55,124,173	9.4	WA	22,561,091	3.9	AK	13,248,557	23.0	MD	13,135,270	1.0	WA	12,718,871	2.2	WA	18,590,989	3.2
19	FL	259,782,009	52.9	WI	53,338,998	11.4	AZ	21,964,310	8.8	IL	12,882,434	1.6	OH	12,818,978	2.2	KY	11,501,965	7.7	HI	18,135,069	13.5
20	CO	245,016,293	56.5	MN	42,823,311	9.2	DC	18,340,213	8.5	NJ	12,791,723	4.1	CO	12,062,452	2.8	ND	10,925,598	26.9	SC	17,249,901	10.3
21	VA	220,899,332	57.2	OR	39,368,610	13.7	HI	18,264,230	13.6	OK	12,452,625	10.5	WV	12,032,304	16.9	NE	10,907,214	11.0	MS	16,919,311	13.6
22	OR	189,135,710	65.8	TN	28,089,126	7.3	IN	17,503,611	6.1	NC	12,308,406	1.4	VA	11,818,663	3.1	AR	10,617,900	15.3	NJ	15,051,728	4.8
23	NJ	182,310,588	58.1	MO	25,407,688	4.9	UT	16,888,185	7.8	MO	11,394,800	2.2	NM	11,041,076	8.3	TN	10,496,816	2.7	CT	14,748,021	3.6
24	IA	170,549,883	69.2	UT	24,768,717	11.5	MN	16,395,367	3.5	NH	11,339,207	8.2	CT	10,840,418	2.6	IN	10,006,645	3.5	GA	13,891,359	2.8
25	IN	163,822,142	57.5	IA	24,729,552	10.0	NE	14,633,821	14.8	MS	10,858,702	8.7	MN	9,813,486	2.1	OR	9,736,832	3.4	DC	13,303,731	6.1
26	DC	161,636,503	74.7	HI	19,660,476	14.7	RI	14,133,884	13.6	WI	10,625,847	2.3	MS	9,533,454	7.6	LA	9,463,630	5.3	RI	12,830,150	12.4
27	UT	130,381,571	60.5	NM	18,332,256	13.8	TN	13,354,694	3.5	IA	9,647,207	3.9	MO	8,553,700	1.6	MD	8,955,888	0.7	MN	12,362,315	2.7
28	AZ	121,629,434	48.6	CT	17,778,554	4.3	AL	12,657,630	3.3	MT	9,523,000	17.0	KS	8,498,898	7.1	CO	8,633,818	2.0	AL	12,297,477	3.2
29	LA	117,398,281	65.4	SC	17,098,868	10.2	MO	12,165,167	2.3	TN	9,385,886	2.5	AZ	8,035,724	3.2	OK	8,546,182	7.2	TN	11,841,357	3.1
30	KY	107,964,062	72.1	KS	16,770,417	14.0	CO	11,205,272	2.6	WA	9,299,231	1.6	TN	7,900,712	2.1	MA	8,443,974	0.7	IA	11,000,289	4.5
31	SC	98,818,978	59.0	LA	16,015,530	8.9	LA	9,317,139	5.2	LA	8,909,624	5.0	IA	7,621,877	3.1	SC	8,196,768	4.9	LA	10,979,306	6.1
32	NH	76,828,285	55.6	RI	15,285,798	14.7	CT	7,870,082	1.9	NM	8,446,319	6.3	LA	7,533,422	4.2	NJ	8,050,432	2.6	WV	10,495,843	14.7
33	KS	73,623,217	61.6	OK	13,253,976	11.2	OR	7,683,152	2.7	IN	8,187,205	2.9	UT	7,521,231	3.5	MT	8,017,976	14.3	OK	9,822,625	8.3
34	PR	66,992,638	75.7	NH	12,847,447	9.3	OK	5,213,083	4.4	DC	7,830,442	3.6	OR	7,232,616	2.5	KS	7,772,644	6.5	AZ	9,220,573	3.7
35	OK	64,194,444	54.1	KY	12,712,698	8.5	KY	3,867,387	2.6	ID	6,685,912	19.6	ND	6,065,034	15.0	UT	7,634,781	3.5	MO	8,948,825	1.7
36	VT	61,349,666	82.8	DE	12,329,589	25.7	IA	3,406,578	1.4	OR	6,293,342	2.2	OK	5,115,024	4.3	WV	7,029,404	9.9	IN	8,116,344	2.8

Table C.3 (Detail) (continued)

	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
Total	14,213,893,427	66.6	2,355,384,295	11.0	1,472,980,562	6.9	1,101,345,580	5.2	808,643,706	3.8	539,021,309	2.5	860,302,369	4.0							
Rank																					
37	NM	60,892,671	45.7	AL	11,975,948	3.1	MT	3,339,170	6.0	PR	5,007,747	5.7	DC	5,072,974	2.3	AZ	6,516,802	2.6	KY	7,681,013	5.1
38	NE	54,442,534	55.0	NV	11,463,056	19.0	NH	2,999,026	2.2	RI	4,892,345	4.7	KY	3,406,983	2.3	ID	5,829,748	17.1	KS	7,416,461	6.2
39	RI	51,213,298	49.3	NE	9,917,123	10.0	SC	2,884,031	1.7	MN	4,780,667	1.0	RI	2,862,497	2.8	VT	5,634,211	7.6	NE	4,990,559	5.0
40	AR	47,815,906	69.0	DC	9,321,991	4.3	KS	2,763,443	2.3	CT	4,643,012	1.1	AK	2,861,863	5.0	SD	5,397,500	31.1	ME	4,023,611	19.8
41	HI	46,208,423	34.5	AK	8,292,003	14.4	AK	2,409,015	4.2	ND	4,617,018	11.4	DE	2,615,104	5.4	CT	4,945,584	1.2	DE	3,939,992	8.2
42	MS	33,399,399	26.8	MT	8,207,320	14.6	WV	2,383,087	3.3	SC	3,644,962	2.2	NE	2,488,920	2.5	HI	4,939,397	3.7	ND	3,819,802	9.4
43	DE	22,367,774	46.6	MS	7,862,593	6.3	NV	2,098,612	3.5	KS	2,608,533	2.2	ID	2,323,002	6.8	AK	4,441,201	7.7	WY	3,190,934	17.6
44	MT	22,247,367	39.6	ME	7,676,172	37.8	ME	1,736,000	8.6	KY	2,588,082	1.7	HI	2,153,372	1.6	PR	4,396,605	5.0	NV	3,162,310	5.2
45	WV	19,191,799	26.9	PR	6,986,704	7.9	DE	1,710,480	3.6	NV	1,631,666	2.7	MT	1,830,959	3.3	ME	4,140,855	20.4	AR	3,072,241	4.4
46	NV	14,754,077	24.5	AR	5,883,941	8.5	PR	1,465,072	1.7	NE	1,575,414	1.6	NH	1,270,386	0.9	NM	4,032,514	3.0	PR	3,032,464	3.4
47	ND	11,395,577	28.1	ID	5,304,943	15.6	ND	997,000	2.5	DE	1,311,718	2.7	VT	1,228,455	1.7	DE	3,720,656	7.8	MT	2,953,947	5.3
48	ID	11,125,788	32.7	WY	4,835,566	26.7	AR	799,358	1.2	VT	1,143,908	1.5	PR	625,000	0.7	NV	2,764,217	4.6	UT	2,947,608	1.4
49	SD	7,650,871	44.1	VT	3,583,389	4.8	SD	410,222	2.4	WY	946,453	5.2	WY	500,537	2.8	RI	2,664,265	2.6	ID	2,763,986	8.1
50	AK	7,575,140	13.2	ND	2,746,170	6.8	WY	36,167	0.2	SD	922,083	5.3	AR	404,328	0.6	NH	2,655,739	1.9	NM	2,517,852	1.9
51	WY	6,220,474	34.3	WV	2,180,221	3.1	ID	0	0.0	AR	744,233	1.1	ME	270,593	1.3	WY	2,414,096	13.3	VT	1,154,325	1.6
52	ME	2,106,071	10.4	SD	2,109,068	12.1	VT	0	0.0	ME	350,415	1.7	SD	0	0.0	DC	937,334	0.4	SD	878,448	5.1

Table C.4 (Detail)

Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Excluding Medical Schools, by State

Total	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
	4,761,551,880	40.6	2,344,069,114	20.0	1,407,100,410	12.0	1,081,002,578	9.2	789,383,703	6.7	537,295,447	4.6	820,454,012	7.0							
Rank																					
1	CA	622,095,820	39.4	CA	396,534,320	25.1	MD	256,369,709	30.4	MD	228,325,706	27.1	CA	104,404,035	6.6	CA	30,035,377	1.9	CA	75,722,077	4.8
2	MA	440,584,978	53.3	IL	159,749,023	35.3	CA	186,784,976	11.8	CA	162,232,794	10.3	MA	85,434,778	10.3	TX	22,475,615	3.9	CO	40,703,529	14.8
3	NY	355,597,915	49.5	NY	153,594,992	21.4	PA	141,775,502	23.5	CO	58,940,180	21.4	NY	71,917,924	10.0	NC	19,991,635	6.0	MA	39,304,685	4.8
4	TX	279,738,981	48.9	MA	136,009,726	16.5	TX	80,165,823	14.0	MA	44,314,209	5.4	TX	35,925,939	6.3	IA	19,525,867	15.5	NY	34,797,582	4.8
5	PA	246,115,168	40.8	PA	107,712,935	17.9	MA	71,978,661	8.7	TX	43,203,864	7.5	PA	31,347,280	5.2	MI	19,092,994	5.0	FL	34,620,105	10.8
6	MD	236,695,238	28.1	MI	103,615,051	27.1	IL	52,921,378	11.7	AL	40,323,844	18.6	IL	28,145,047	6.2	GA	18,449,476	6.3	NC	33,069,724	9.8
7	NC	170,672,807	50.8	TX	87,834,808	15.3	NY	49,284,979	6.9	NY	35,258,618	4.9	MI	26,345,677	6.9	NY	18,198,719	2.5	MD	32,250,519	3.8
8	WA	164,373,472	50.5	WA	75,700,665	23.2	OH	46,131,297	16.9	FL	32,492,083	10.1	WI	26,137,968	9.5	MS	17,044,616	15.4	NH	30,173,488	39.0
9	IL	164,289,728	36.3	FL	73,871,024	23.0	FL	45,681,360	14.2	VA	31,215,624	14.6	FL	25,585,705	8.0	PA	16,439,833	2.7	PA	29,955,295	5.0
10	MI	164,113,523	42.9	MD	67,029,045	8.0	GA	35,797,044	12.3	PA	30,063,183	5.0	GA	25,369,125	8.7	FL	15,796,031	4.9	OR	28,053,891	16.6
11	WI	129,753,894	47.1	GA	63,876,081	21.9	NC	28,972,527	8.6	UT	25,199,511	20.8	NV	22,448,267	46.2	OH	15,187,231	5.6	VA	25,393,873	11.9
12	GA	118,298,441	40.5	AZ	63,506,113	34.4	MS	28,912,462	26.1	HI	24,576,242	19.3	AL	22,446,090	10.3	AL	14,823,972	6.8	MI	24,688,559	6.5
13	MN	107,081,008	54.1	VA	59,170,053	27.6	MI	28,120,281	7.4	OH	23,245,085	8.5	WA	22,378,674	6.9	WI	14,205,440	5.2	TX	23,042,278	4.0
14	AL	102,750,827	47.3	IN	58,594,943	29.8	NM	27,842,588	28.2	AZ	19,509,270	10.6	IN	18,800,219	9.5	MN	14,143,068	7.1	IL	21,345,735	4.7
15	OH	100,343,315	36.8	NC	56,663,798	16.9	VA	24,049,233	11.2	WV	18,013,317	31.0	NC	14,071,310	4.2	IL	13,411,231	3.0	WI	20,483,247	7.4
16	FL	93,259,111	29.0	CO	56,187,855	20.4	NJ	23,144,118	11.0	GA	16,468,796	5.6	MD	13,151,443	1.6	MO	13,196,734	8.1	OH	20,248,675	7.4
17	CO	88,123,527	32.0	OH	55,012,733	20.2	WA	22,561,091	6.9	MI	16,181,778	4.2	OH	12,818,978	4.7	VA	12,789,546	6.0	AK	18,769,079	32.6
18	NJ	86,933,897	41.3	NJ	54,411,335	25.9	AZ	21,964,310	11.9	AK	13,248,557	23.0	SC	12,137,074	15.4	WA	12,718,871	3.9	WA	18,590,989	5.7
19	MO	84,382,527	51.9	WI	53,074,439	19.3	WI	21,303,578	7.7	IL	12,632,434	4.4	KY	12,062,452	4.4	KY	11,501,965	16.8	HI	18,135,069	14.7
20	DC	80,152,290	59.5	MN	42,823,311	21.6	HI	18,264,230	14.8	NJ	12,551,787	6.0	WV	12,032,304	20.7	ND	10,925,598	33.6	MS	16,919,311	15.3
21	IN	75,684,956	38.4	OR	39,368,610	23.2	DC	18,088,213	13.4	OK	12,452,625	14.4	NJ	11,954,235	5.7	NE	10,907,214	16.2	GA	13,891,359	4.8
22	OR	70,992,936	41.9	TN	27,835,699	18.7	IN	17,503,611	8.9	NC	12,308,406	3.7	VA	11,818,663	5.5	AR	10,617,900	36.3	DC	13,303,731	9.9
23	TN	70,276,569	47.2	MO	25,047,691	15.4	UT	16,168,185	13.4	MO	11,394,800	7.0	NM	11,041,076	11.2	TN	10,496,816	7.0	NJ	13,267,824	6.3
24	LA	63,238,729	51.0	UT	24,768,717	20.5	NE	14,633,821	21.8	NH	11,339,207	14.7	CT	10,840,418	9.4	IN	10,006,645	5.1	RI	12,830,150	18.7
25	CT	62,284,138	54.0	IA	24,729,552	19.6	RI	14,133,884	20.6	MS	10,858,702	9.8	MN	9,813,486	5.0	OR	9,736,832	5.7	AL	12,297,477	5.7
26	AZ	56,065,776	30.3	HI	19,660,476	15.9	AL	12,657,630	5.8	WI	10,625,847	3.9	MS	9,533,454	8.6	LA	9,463,630	7.6	MN	11,997,424	6.1
27	IA	50,666,580	40.2	NM	18,087,256	18.3	MO	12,165,167	7.5	IA	9,647,207	7.6	KS	8,498,898	10.3	MD	8,955,888	1.1	TN	11,680,013	7.8
28	VA	49,780,460	23.2	CT	17,198,812	14.9	TN	11,568,384	7.8	MT	9,523,000	17.0	AZ	8,035,724	4.3	CO	8,633,818	3.1	IA	11,000,289	8.7
29	KS	37,555,901	45.3	SC	16,628,759	21.1	CO	10,394,204	3.8	WA	9,299,231	2.9	TN	7,829,712	5.3	MA	8,443,974	1.0	LA	10,979,306	8.9
30	UT	36,848,947	30.5	KS	16,452,067	19.9	LA	9,317,139	7.5	TN	9,276,882	6.2	IA	7,621,877	6.0	OK	8,146,182	9.4	CT	10,558,644	9.1
31	HI	35,789,630	29.0	LA	15,474,827	12.5	OR	7,683,152	4.5	LA	8,909,624	7.2	MO	7,511,571	4.6	NJ	8,050,432	3.8	WV	10,495,843	18.1
32	OK	33,677,823	38.9	RI	15,285,798	22.3	MN	7,382,780	3.7	NM	8,446,319	8.5	UT	7,437,231	6.1	MT	8,017,976	14.3	OK	9,352,638	10.8
33	SC	27,520,515	34.9	OK	12,942,141	15.0	CT	6,080,818	5.3	IN	8,187,205	4.2	OR	7,232,616	4.3	SC	7,996,768	10.1	AZ	9,220,573	5.0
34	NM	26,867,488	27.2	NH	12,847,447	16.6	OK	5,213,083	6.0	DC	7,830,442	5.8	LA	6,564,422	5.3	KS	7,772,644	9.4	SC	8,950,309	11.3
35	KY	26,572,082	38.9	KY	12,712,698	18.6	KY	3,867,387	5.7	ID	6,685,912	19.6	ND	6,065,034	18.6	UT	7,634,781	6.3	MO	8,948,825	5.5
36	PR	26,552,987	55.2	DE	12,329,589	25.7	MT	3,339,170	6.0	OR	6,293,342	3.7	DC	5,072,974	3.8	WV	7,029,404	12.1	IN	8,116,344	4.1
37	NE	22,823,823	33.9	AL	11,975,948	5.5	NH	2,999,026	3.9	PR	5,010,246	10.4	OK	4,710,024	5.4	AZ	6,516,802	3.5	KY	7,681,013	11.2
38	DE	22,367,774	46.6	NV	11,463,056	23.6	IA	2,951,578	2.3	RI	4,892,345	7.1	KY	3,406,983	5.0	ID	5,829,748	17.1	KS	7,416,461	9.0
39	MT	22,247,367	39.6	NE	9,858,869	14.7	KS	2,763,443	3.3	MN	4,780,667	2.4	RI	2,862,497	4.2	VT	5,634,211	29.7	NE	4,990,559	7.4
40	MS	19,667,970	17.8	DC	9,321,991	6.9	AK	2,409,015	4.2	ND	4,617,018	14.2	AK	2,861,863	5.0	SD	5,397,500	51.5	ME	4,023,611	19.8
41	NH	16,053,774	20.8	AK	8,292,003	14.4	WV	2,383,087	4.1	CT	3,509,780	3.0	DE	2,615,104	5.4	CT	4,945,584	4.3	DE	3,939,992	8.2
42	RI	15,963,221	23.3	MT	8,207,320	14.6	SC	2,175,933	2.8	SC	3,497,532	4.4	NE	2,488,920	3.7	HI	4,939,397	4.0	ND	3,819,802	11.7
43	ID	11,125,788	32.7	ME	7,676,172	37.8	NV	2,098,612	4.3	KY	2,588,082	3.8	ID	2,323,002	6.8	AK	4,441,201	7.7	WY	3,190,934	17.6

Table C.4 (Detail) (continued)

	HHS		NSF		DOD		NASA		DOE		USDA		Other								
	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%	Amount	%							
Total	4,761,551,880	40.6	2,344,069,114	20.0	1,407,100,410	12.0	1,081,002,578	9.2	789,383,703	6.7	537,295,447	4.6	820,454,012	7.0							
Rank																					
44	AR	8,375,123	28.7	MS	7,660,249	6.9	ME	1,736,000	8.6	KS	2,405,385	2.9	HI	2,153,372	1.7	PR	4,396,605	9.1	NV	3,162,310	6.5
45	AK	7,575,140	13.2	PR	6,986,704	14.5	DE	1,710,480	3.6	NV	1,631,666	3.4	MT	1,830,959	3.3	ME	4,140,855	20.4	PR	3,032,464	6.3
46	WY	6,220,474	34.3	AR	5,525,056	18.9	PR	1,465,072	3.0	NE	1,575,414	2.3	NH	1,270,386	1.6	NM	4,032,514	4.1	MT	2,953,947	5.3
47	VT	6,201,005	32.7	ID	5,304,943	15.6	ND	997,000	3.1	DE	1,311,718	2.7	VT	1,228,455	6.5	DE	3,720,656	7.8	UT	2,947,608	2.4
48	WV	5,963,760	10.3	WY	4,835,566	26.7	AR	743,000	2.5	VT	1,143,908	6.0	PR	625,000	1.3	NV	2,764,217	5.7	AR	2,822,241	9.7
49	NV	4,972,156	10.2	VT	3,583,389	18.9	SD	410,222	3.9	WY	946,453	5.2	WY	500,537	2.8	RI	2,664,265	3.9	ID	2,763,986	8.1
50	ND	3,383,185	10.4	ND	2,746,170	8.4	WY	36,167	0.2	SD	922,083	8.8	AR	404,328	1.4	NH	2,655,739	3.4	NM	2,517,852	2.5
51	ME	2,106,071	10.4	WV	2,180,221	3.8	ID	0	0.0	AR	744,233	2.5	ME	270,593	1.3	WY	2,414,096	13.3	VT	1,154,325	6.1
52	SD	773,265	7.4	SD	2,109,068	20.1	VT	0	0.0	ME	350,415	1.7	SD	0	0.0	DC	937,334	0.7	SD	878,448	8.4

Table C.5 (Detail)

Agencies Providing Federal Funds for Conduct of R&D in FY 2002 to Universities and Colleges, Excluding Medical Schools, by State
(with highlights)

	HHS	NSF	DOD	NASA	DOE	USDA	EDUC	DOC	Other
	4,761,551,880 40.6	2,344,069,114 20.0	1,407,100,410 12.0	1,081,002,578 9.2	789,383,703 6.7	537,295,447 4.6	251,417,320 2.1	322,675,663 2.7	246,361,029 2.1
AK	7,575,140 13.2	8,292,003 14.4	2,409,015 4.2	13,248,557 23.0	2,861,863 5.0	4,441,201 7.7	12,340,409 21.4	4,432,404 7.7	1,996,266 3.5
AL	102,750,827 47.3	11,975,948 5.5	12,657,630 5.8	40,323,844 18.6	22,446,090 10.3	14,823,972 6.8	1,225,984 0.6	4,514,279 2.1	6,557,214 3.0
AR	8,375,123 28.7	5,525,056 18.9	743,000 2.5	744,233 2.5	404,328 1.4	10,617,900 36.3	0 0.0	1,628,088 5.6	1,194,153 4.1
AZ	56,065,776 30.3	63,506,113 34.4	21,964,310 11.9	19,509,270 10.6	8,035,724 4.3	6,516,802 3.5	2,667,961 1.4	3,540,404 1.9	3,012,208 1.6
CA	622,095,820 39.4	396,534,320 25.1	186,784,976 11.8	162,232,794 10.3	104,404,035 6.6	30,035,377 1.9	23,564,635 1.5	22,584,799 1.4	29,572,643 1.9
CO	88,123,527 32.0	56,187,855 20.4	10,394,204 3.8	58,940,180 21.4	12,062,452 4.4	8,633,818 3.1	22,641,852 8.2	6,716,430 2.4	11,345,247 4.1
CT	62,284,138 54.0	17,198,812 14.9	6,080,818 5.3	3,509,780 3.0	10,840,418 9.4	4,945,584 4.3	3,778,100 3.3	6,496,465 5.6	284,079 0.2
DC	80,152,290 59.5	9,321,991 6.9	18,088,213 13.4	7,830,442 5.8	5,072,974 3.8	937,334 0.7	38,535 0.0	3,123,827 2.3	10,141,369 7.5
DE	22,367,774 46.6	12,329,589 25.7	1,710,480 3.6	1,311,718 2.7	2,615,104 5.4	3,720,656 7.8	1,970,882 4.1	296,781 0.6	1,672,329 3.5
FL	93,259,111 29.0	73,871,024 23.0	45,681,360 14.2	32,492,083 10.1	25,585,705 8.0	15,796,031 4.9	11,030,816 3.4	15,597,317 4.9	7,991,972 2.5
GA	118,298,441 40.5	63,876,081 21.9	35,797,044 12.3	16,468,796 5.6	25,369,125 8.7	18,449,476 6.3	1,413,848 0.5	6,605,249 2.3	5,872,262 2.0
HI	35,789,630 29.0	19,660,476 15.9	18,264,230 14.8	24,576,242 19.9	2,153,372 1.7	4,939,397 4.0	12,739,042 10.3	1,855,668 1.5	3,540,359 2.9
IA	50,666,580 40.2	24,729,552 19.6	2,951,578 2.3	9,647,207 7.6	7,621,877 6.0	19,525,867 15.5	260,941 0.2	8,601,010 6.8	2,138,338 1.7
ID	11,125,788 32.7	5,304,943 15.6	0 0.0	6,685,912 19.6	2,323,002 6.8	5,829,478 17.1	92,737 0.3	936,008 2.8	1,735,241 5.1
IL	164,289,728 36.3	159,749,023 35.3	52,921,378 11.7	12,632,434 2.8	28,145,047 6.2	13,411,231 3.0	2,041,242 0.5	12,130,340 2.7	7,174,153 1.6
IN	75,684,956 38.4	58,594,943 29.8	17,503,611 8.9	8,187,205 4.2	18,800,219 9.5	10,006,645 5.1	504,954 0.3	3,475,748 1.8	4,135,642 2.1
KS	37,555,901 45.3	16,452,067 19.9	2,763,443 3.3	2,405,385 2.9	8,498,898 10.3	7,772,644 9.4	0 0.0	6,622,125 8.0	794,336 1.0
KY	26,572,082 38.9	12,712,698 18.6	3,867,387 5.7	2,588,082 3.8	3,406,983 5.0	11,501,965 16.8	17,500 0.0	5,556,603 8.1	2,106,910 3.1
LA	63,238,729 51.0	15,474,827 12.5	9,317,139 7.5	8,909,624 7.2	6,564,422 5.3	9,463,630 7.6	5,275,871 4.3	1,806,202 1.5	3,897,233 3.1
MA	440,584,978 53.3	136,009,726 16.5	71,978,661 8.7	44,314,209 5.4	85,434,778 10.3	8,443,974 1.0	11,355,413 1.4	14,870,482 1.8	13,078,790 1.6
MD	236,695,238 28.1	67,029,045 8.0	256,369,709 30.4	228,325,706 27.1	13,151,443 1.6	8,955,888 1.1	6,786,688 0.8	15,358,144 1.8	10,105,687 1.2
ME	2,106,071 10.4	7,676,172 37.8	1,736,000 8.6	350,415 1.7	270,593 1.3	4,140,855 20.4	1,865,386 9.2	1,008,015 5.0	1,150,210 5.7
MI	164,113,323 42.9	103,615,051 27.1	28,120,281 7.4	16,181,778 4.2	26,345,677 6.9	19,092,994 5.0	4,696,437 1.2	9,636,989 2.5	10,355,133 2.7
MN	107,081,008 54.1	42,823,311 21.6	7,382,780 3.7	4,780,667 2.4	9,813,486 5.0	14,143,068 7.1	1,144,100 0.6	6,623,121 3.3	4,230,203 2.1
MO	84,382,527 51.9	25,047,691 15.4	12,165,167 7.5	11,394,800 7.0	7,511,571 4.6	13,196,734 8.1	124,394 0.1	6,015,085 3.7	2,809,346 1.7
MS	19,667,970 17.8	7,660,249 6.9	28,912,462 26.1	10,858,702 9.8	9,533,454 8.6	17,044,616 15.4	7,791,815 4.9	5,427,175 4.9	3,700,321 3.3
MT	22,247,367 39.6	8,207,320 14.6	3,339,170 6.0	9,523,000 17.0	1,830,959 3.3	8,017,976 14.3	61,000 0.1	1,530,790 2.7	1,362,157 2.4
NC	170,672,807 50.8	56,663,798 16.9	28,972,527 8.6	12,308,406 3.7	14,071,310 4.2	19,991,635 6.0	7,454,715 2.2	15,089,577 4.5	10,525,432 3.1
ND	3,383,185 10.4	2,746,170 8.4	997,000 3.1	4,617,018 14.2	6,065,034 18.6	10,925,598 33.6	270,000 0.8	1,218,717 3.7	2,331,085 7.2
NE	22,823,823 33.9	9,858,869 14.7	14,633,821 21.8	1,575,414 2.3	2,488,920 3.7	10,907,214 16.2	643,597 1.0	3,367,721 5.0	979,241 1.5
NH	16,053,774 20.8	12,847,447 16.6	2,999,026 3.9	11,339,207 14.7	1,270,386 1.6	2,655,739 3.4	25,621,921 33.1	3,183,404 4.1	1,368,163 1.8
NJ	86,933,897 41.3	54,411,335 25.9	23,144,118 11.0	12,551,787 6.0	11,954,235 5.7	8,050,432 3.8	5,027,426 2.4	5,816,389 2.8	2,424,009 1.2
NM	26,867,488 27.2	18,087,256 18.3	27,842,588 28.2	8,446,319 8.5	11,041,076 11.2	4,032,514 4.1	112,990 0.1	1,466,872 1.5	937,990 0.9
NV	4,972,156 10.2	11,463,056 23.6	2,098,612 4.3	1,631,666 3.4	22,448,267 46.2	2,764,217 5.7	1,889,000 3.9	473,066 1.0	800,244 1.6
NY	355,597,915 49.5	153,594,992 21.4	49,284,979 6.9	35,258,618 4.9	71,917,924 10.0	18,198,719 2.5	16,819,299 2.3	12,764,746 1.8	5,213,537 0.7
OH	100,343,315 36.8	55,012,733 20.2	46,131,297 16.9	23,245,085 8.5	12,818,978 4.7	15,187,231 5.6	1,829,518 0.7	11,020,284 4.0	7,398,873 2.7
OK	33,677,823 38.9	12,942,141 15.0	5,213,083 6.0	12,452,625 14.4	4,710,024 5.4	8,146,182 9.4	7,246,161 8.4	1,100,035 1.3	1,006,442 1.2
OR	70,992,936 41.9	39,368,610 23.2	7,683,152 4.5	6,293,342 3.7	7,232,616 4.3	9,736,832 5.7	7,668,607 4.5	13,440,855 7.9	6,944,429 4.1
PA	246,115,168 40.8	107,712,935 17.9	141,775,502 23.5	30,063,183 5.0	31,347,280 5.2	16,439,833 2.7	1,075,988 0.2	14,806,137 2.5	14,073,170 2.3
PR	26,552,987 55.2	6,986,704 14.5	1,465,072 3.0	5,010,246 10.4	625,000 1.3	4,396,605 9.1	2,266,465 4.7	472,864 1.0	293,135 0.6
RI	15,963,221 23.3	15,285,798 22.3	14,133,884 20.6	4,892,345 7.1	2,862,497 4.2	2,664,265 3.9	3,915,838 5.7	5,195,260 7.6	3,719,052 5.4
SC	27,520,515 34.9	16,628,759 21.1	2,175,933 2.8	3,497,532 4.4	12,137,074 15.4	7,996,768 10.1	6,032,874 7.6	1,654,550 2.1	1,262,885 1.6
SD	773,265 7.4	2,109,068 20.1	410,222 3.9	922,083 8.8	0 0.0	5,397,500 51.5	0 0.0	640,000 6.1	238,448 2.3
TN	70,276,569 47.2	27,835,699 18.7	11,568,384 7.8	9,276,882 6.2	7,829,712 5.3	10,496,816 7.0	101,000 0.1	7,410,201 5.0	4,168,812 2.8
TX	279,738,981 48.9	87,834,808 15.3	80,165,823 14.0	43,203,864 7.5	35,925,939 6.3	22,475,615 3.9	4,376,361 0.8	8,757,907 1.5	9,908,010 1.7
UT	36,848,947 30.5	24,768,717 20.5	16,168,185 13.4	25,199,511 20.8	7,437,231 6.1	7,634,781 6.3	821,504 0.7	1,503,354 1.2	622,750 0.5
VA	49,780,460 23.2	59,170,053 27.6	24,049,233 11.2	31,215,624 14.6	11,818,663 5.5	12,789,546 6.0	11,869,357 5.5	8,998,532 4.2	4,525,984 2.1
VT	6,201,005 32.7	3,583,389 18.9	0 0.0	1,143,908 6.0	1,228,455 6.5	5,634,211 29.7	19,000 0.1	743,556 3.9	391,769 2.1
WA	164,373,472 50.5	75,700,665 23.2	22,561,091 6.9	9,299,231 2.9	22,378,674 6.9	12,718,871 3.9	5,277,159 1.6	5,868,071 1.8	7,445,759 2.3
WI	129,753,894 47.1	53,074,439 19.3	21,303,578 7.7	10,625,847 3.9	26,137,968 9.5	14,205,440 5.2	5,647,998 2.0	13,394,017 4.9	1,441,232 0.5
WV	5,963,760 10.3	2,180,221 3.8	2,383,087 4.1	18,013,317 31.0	12,032,304 20.7	7,029,404 12.1	0 0.0	7,300,000 12.6	3,195,843 5.5
WY	6,220,474 34.3	4,835,566 26.7	36,167 0.2	946,453 5.2	500,537 2.8	2,414,096 13.3	0 0.0	0 0.0	3,190,934 17.6

#1 source of federal R&D funds #2 source of federal R&D funds #3 source of federal R&D funds

Table C.6 (Detail)

**Federal Funds for Conduct of R&D Provided in FY 2002 to Universities and Colleges,
Including Medical Schools, by State in Rank Order**

Rank	Project Grants		Contracts		Cooperative Agreements ^a		Formula Grants					
	Amount	%	Amount	%	Amount	%	Amount	%				
Total	16,716,775,726	78.3	1,568,020,000	7.3	2,824,598,714	13.2	242,176,808	1.1				
1	CA	2,157,938,290	79.2	MD	445,059,000	34.1	CA	402,268,187	14.8	TX	10,893,157	0.9
2	NY	1,468,890,578	88.0	CA	159,837,000	5.9	MA	250,740,513	21.0	NC	10,787,056	1.3
3	PA	1,066,009,374	80.4	PA	115,038,000	8.7	TX	209,722,595	16.7	DC	10,264,018	4.7
4	TX	946,397,339	75.4	TX	88,962,000	7.1	NY	158,681,371	9.5	AL	9,496,077	2.4
5	MA	904,788,196	75.7	OH	58,094,000	9.9	MD	148,389,295	11.4	TN	8,111,643	2.1
6	MD	706,075,426	54.2	NC	53,157,000	6.2	PA	138,882,718	10.5	GA	8,037,328	1.6
7	NC	676,944,789	78.9	UT	44,294,000	20.6	IL	119,181,293	14.6	KY	8,010,365	5.4
8	IL	657,918,788	80.5	FL	39,037,000	7.9	NC	117,218,355	13.7	MO	7,832,684	1.5
9	MI	547,739,874	83.2	AL	38,812,000	10.0	MO	102,007,663	19.7	VA	7,342,496	1.9
10	WA	485,541,046	84.2	CO	38,360,000	8.8	MI	81,974,625	12.4	MS	6,897,618	5.5
11	OH	468,329,981	79.7	MA	37,950,000	3.2	AL	76,329,469	19.7	PA	6,576,813	0.5
12	FL	397,136,610	80.9	MO	37,139,000	7.2	DC	69,549,376	32.1	IA	6,364,251	2.6
13	WI	395,729,189	84.5	NY	36,075,000	2.2	CO	65,371,512	15.1	AR	6,109,269	8.8
14	GA	394,667,593	80.8	IL	34,563,000	4.2	WA	64,046,273	11.1	NY	6,104,597	0.4
15	CT	387,901,340	93.7	GA	32,648,000	6.7	MN	63,244,166	13.6	OH	6,100,902	1.0
16	MO	372,097,864	71.7	MS	26,779,000	21.5	OH	55,283,106	9.4	CA	6,093,650	0.2
17	MN	369,206,173	79.5	MN	26,753,000	5.8	GA	53,221,660	10.9	IL	5,855,498	0.7
18	CO	326,943,290	75.4	HI	24,031,000	17.9	VA	52,576,557	13.6	MI	5,586,655	0.8
19	VA	311,025,359	80.5	WI	23,635,000	5.0	TN	49,965,839	13.0	FL	5,581,572	1.1
20	TN	305,565,421	79.8	MI	23,375,000	3.5	FL	49,445,135	10.1	WI	5,490,289	1.2
21	NJ	269,174,997	85.7	WA	22,630,000	3.9	WI	43,325,250	9.3	MN	5,426,520	1.2
22	AL	263,368,458	67.9	TN	19,418,000	5.1	AZ	31,570,220	12.6	SC	5,364,627	3.2
23	OR	250,236,930	87.0	DC	15,724,000	7.3	LA	31,333,372	17.4	IN	5,212,960	1.8
24	IN	242,197,039	85.0	VA	15,444,000	4.0	OK	28,226,913	23.8	LA	5,146,743	2.9
25	IA	225,232,281	91.4	NJ	14,454,000	4.6	NJ	27,413,594	8.7	OK	4,952,655	4.2
26	AZ	208,035,073	83.1	AK	11,998,000	20.8	OR	26,237,195	9.1	WA	4,341,091	0.8
27	UT	148,734,032	69.1	IN	11,664,000	4.1	IN	25,957,110	9.1	PR	3,978,797	4.5
28	LA	138,160,817	76.9	AZ	8,556,000	3.4	HI	25,246,699	18.8	WV	3,970,109	5.6
29	SC	136,905,575	81.7	NM	7,777,000	5.8	SC	24,444,265	14.6	MD	3,860,217	0.3
30	KY	132,877,038	88.7	OR	7,476,000	2.6	NM	20,969,740	15.8	OR	3,554,028	1.2
31	DC	120,905,794	55.9	RI	6,028,000	5.8	WV	20,834,318	29.2	KS	3,540,281	3.0
32	NH	115,901,911	83.9	NV	5,901,000	9.8	UT	20,398,298	9.5	NE	3,512,628	3.5
33	KS	105,483,903	88.3	CT	5,732,000	1.4	MS	20,218,267	16.2	CO	3,002,421	0.7
34	NM	102,548,020	77.0	OK	5,057,000	4.3	PR	19,240,778	21.7	NJ	2,939,777	0.9
35	NE	87,005,232	87.9	LA	4,976,000	2.8	CT	18,304,049	4.4	SD	2,563,496	14.8
36	RI	85,423,923	82.2	IA	4,252,000	1.7	NH	16,909,131	12.2	ID	2,540,213	7.5
37	HI	83,229,696	62.1	NH	3,570,000	2.6	NV	14,283,080	23.7	DE	2,532,913	5.3
38	OK	80,361,391	67.8	WY	2,763,000	15.2	AK	13,863,550	24.1	MT	2,495,887	4.4
39	MS	70,925,652	56.8	KY	2,257,000	1.5	RI	11,144,653	10.7	ND	2,433,806	6.0
40	PR	64,686,655	73.1	ME	2,236,000	11.0	IA	10,632,721	4.3	MA	2,410,506	0.2
41	VT	64,436,821	87.0	VT	1,733,000	2.3	KS	9,464,429	7.9	ME	2,335,952	11.5
42	AR	60,802,377	87.7	WV	988,000	1.4	NE	8,185,725	8.3	AZ	2,220,933	0.9
43	MT	52,145,425	92.9	KS	965,000	0.8	ND	6,737,042	16.6	CT	2,025,088	0.5
44	WV	45,533,548	63.8	SC	764,000	0.5	KY	6,577,787	4.4	UT	1,915,274	0.9
45	DE	42,809,609	89.2	MT	625,000	1.1	VT	6,200,172	8.4	NM	1,810,516	1.4
46	NV	38,826,820	64.4	PR	600,000	0.7	DE	2,434,791	5.1	WY	1,737,721	9.6
47	ND	31,395,351	77.4	NE	252,000	0.3	AR	2,183,261	3.1	NH	1,732,536	1.3
48	AK	30,341,874	52.7	AR	243,000	0.4	WY	1,935,731	10.7	VT	1,723,961	2.3
49	ID	30,307,302	89.1	DE	218,000	0.5	ID	1,064,864	3.1	HI	1,429,814	1.1
50	ME	15,628,483	77.0	ID	121,000	0.4	MT	853,427	1.5	AK	1,393,434	2.4
51	SD	14,599,404	84.1	ND	0	0.0	SD	205,292	1.2	RI	1,285,661	1.2
52	WY	11,707,775	64.5	SD	0	0.0	ME	103,282	0.5	NV	1,250,305	2.1

^a Does not include CRADAs.

Table C.7 (Detail)

**Federal Funds for Conduct of R&D Provided in FY 2002 to Universities and Colleges,
Excluding Medical Schools, by State in Rank Order**

	Project Grants		Contracts		Cooperative Agreements ^a		Formula Grants					
	Amount	%	Amount	%	Amount	%	Amount	%				
Total	8,360,174,582	71.2	1,430,893,000	12.2	1,707,612,754	14.5	242,176,808	2.1				
Rank												
1	CA	1,156,608,881	73.3	MD	434,632,000	51.6	CA	257,989,868	16.4	TX	10,893,157	1.9
2	NY	586,735,868	81.6	CA	157,117,000	10.0	MA	226,824,073	27.5	NC	10,787,056	3.2
3	MA	559,536,432	67.7	PA	112,292,000	18.6	NY	103,588,264	14.4	DC	10,264,018	7.6
4	TX	428,049,529	74.8	TX	61,604,000	10.8	MD	94,841,214	11.3	AL	9,496,077	4.4
5	PA	411,581,344	68.2	OH	56,121,000	20.6	IL	79,224,749	17.5	TN	8,111,643	5.4
6	IL	335,653,329	74.2	AL	38,812,000	17.9	PA	72,959,039	12.1	GA	8,037,328	2.8
7	MD	309,444,117	36.7	MA	37,300,000	4.5	TX	71,840,622	12.6	KY	8,010,365	11.7
8	MI	297,542,663	77.9	NC	36,745,000	10.9	MI	61,804,545	16.2	MO	7,832,684	4.8
9	WA	269,591,650	82.8	MO	36,368,000	22.4	DC	54,963,810	40.8	VA	7,342,496	3.4
10	NC	256,207,207	76.3	FL	35,665,000	11.1	AL	44,841,507	20.6	MS	6,897,618	6.2
11	FL	253,983,888	79.0	CO	34,714,000	12.6	CO	43,672,063	15.9	PA	6,576,813	1.1
12	WI	224,841,223	81.6	UT	33,884,000	28.0	MN	36,780,862	18.6	IA	6,364,251	5.0
13	GA	218,958,186	74.9	IL	31,761,000	7.0	VA	36,716,605	17.1	AR	6,109,269	20.9
14	CO	193,657,081	70.4	GA	29,355,000	10.0	GA	35,799,808	12.3	NY	6,104,597	0.8
15	OH	189,800,384	69.5	MS	26,597,000	24.0	NC	32,010,944	9.5	OH	6,100,902	2.2
16	NJ	182,880,131	87.0	HI	24,031,000	19.5	WA	29,060,252	8.9	CA	6,093,650	0.4
17	IN	167,927,903	85.3	WA	22,630,000	6.9	OK	27,343,309	31.6	IL	5,855,498	1.3
18	VA	155,224,351	72.5	NY	22,222,000	3.1	LA	26,162,196	21.1	MI	5,586,655	1.5
19	AZ	154,439,029	83.6	WI	20,146,000	7.3	FL	26,074,959	8.1	FL	5,581,572	1.7
20	OR	140,836,742	83.2	MN	19,647,000	9.9	WI	25,106,901	9.1	WI	5,490,289	2.0
21	MN	136,167,362	68.8	MI	17,224,000	4.5	HI	22,511,779	18.2	MN	5,426,520	2.7
22	AL	124,126,204	57.1	TN	15,096,000	10.1	AZ	21,357,606	11.6	SC	5,364,627	6.8
23	MO	113,912,488	70.0	VA	14,934,000	7.0	OH	20,965,028	7.7	IN	5,212,960	2.6
24	IA	110,210,541	87.4	AK	11,998,000	20.8	WV	20,834,318	35.9	LA	5,146,743	4.2
25	TN	105,668,918	70.9	IN	11,664,000	5.9	TN	20,087,514	13.5	OK	4,952,655	5.7
26	CT	105,642,033	91.5	DC	11,447,000	8.5	MS	19,677,941	17.8	WA	4,341,091	1.3
27	LA	88,168,738	71.1	NJ	7,973,000	3.8	NM	17,921,472	18.1	PR	3,978,797	8.3
28	HI	75,545,823	61.2	NM	7,777,000	7.9	OR	17,494,609	10.3	WV	3,970,109	6.8
29	UT	74,846,311	61.9	OR	7,476,000	4.4	NJ	16,520,720	7.9	MD	3,860,217	0.5
30	KS	73,045,390	88.2	AZ	6,801,000	3.7	SC	15,075,072	19.1	OR	3,554,028	2.1
31	NM	71,326,105	72.2	RI	6,028,000	8.8	NV	14,283,080	29.4	KS	3,540,281	4.3
32	NH	59,665,675	77.1	NV	5,901,000	12.2	AK	13,863,550	24.1	NE	3,512,628	5.2
33	DC	58,032,147	43.1	CT	5,732,000	5.0	NH	12,370,856	16.0	CO	3,002,421	1.1
34	SC	57,786,191	73.2	OK	4,504,000	5.2	IN	12,089,060	6.1	NJ	2,939,777	1.4
35	MS	57,424,205	51.9	LA	4,470,000	3.6	PR	10,752,892	22.4	SD	2,563,496	24.4
36	NE	57,074,049	84.8	NH	3,570,000	4.6	UT	10,359,395	8.6	ID	2,540,213	7.5
37	RI	54,747,183	79.8	IA	3,442,000	2.7	ND	6,737,042	20.7	DE	2,532,913	5.3
38	KY	53,767,589	78.7	WY	2,763,000	15.2	RI	6,571,316	9.6	MT	2,495,887	4.4
39	MT	52,145,425	92.9	KY	2,257,000	3.3	NE	6,439,943	9.6	ND	2,433,806	7.5
40	OK	49,694,552	57.5	ME	2,236,000	11.0	IA	6,126,158	4.9	MA	2,410,506	0.3
41	DE	42,809,609	89.2	VT	1,733,000	9.1	KS	5,783,128	7.0	ME	2,335,952	11.5
42	PR	32,737,389	68.1	WV	988,000	1.7	MO	4,534,143	2.8	AZ	2,220,933	1.2
43	WV	32,305,509	55.6	SC	681,000	0.9	KY	4,295,256	6.3	CT	2,025,088	1.8
44	AK	30,341,874	52.7	MT	625,000	1.1	VT	3,642,418	19.2	UT	1,915,274	1.6
45	ID	30,307,302	89.1	PR	600,000	1.2	DE	2,434,791	5.1	NM	1,810,516	1.8
46	NV	27,105,899	55.8	KS	496,000	0.6	CT	2,019,073	1.7	WY	1,737,721	9.6
47	ND	23,382,959	71.8	NE	252,000	0.4	WY	1,935,731	10.7	NH	1,732,536	2.2
48	AR	21,783,204	74.5	AR	243,000	0.8	AR	1,096,408	3.8	VT	1,723,961	9.1
49	ME	15,628,483	77.0	DE	218,000	0.5	ID	1,064,864	3.1	HI	1,429,814	1.2
50	VT	11,845,914	62.5	ID	121,000	0.4	MT	853,427	1.5	AK	1,393,434	2.4
51	WY	11,707,775	64.5	ND	0	0.0	SD	205,292	2.0	RI	1,285,661	1.9
52	SD	7,721,798	73.6	SD	0	0.0	ME	103,282	0.5	NV	1,250,305	2.6

^a Does not include CRADAs.

Table C.8 (Detail)

**Number of Universities and Colleges Receiving Federal Funds for Conduct of R&D in
FY 2002, by State and by Types of Degrees Granted by Universities and Colleges
Located in State**

State	Number of Relevant U/Cs Receiving R&D Funds/Number of All Such U/Cs				
	All Degree Granting Institutions	All BA/BS Granting Institutions	All MA/MS Granting Institutions	All PhD Granting Institutions	All MD Granting Institutions
Alabama	17/35	17/34	14/25	9/10	2/2
Alaska	5/6	5/6	4/4	1/1	na
Arizona	4/15	4/14	4/14	3/5	1/1
Arkansas	9/21	9/21	8/13	5/5	1/1
California	55/119	53/104	50/99	28/48	9/9
Colorado	11/22	11/22	10/16	8/10	1/1
Connecticut	9/23	9/22	9/19	7/8	2/2
Delaware	2/5	2/5	2/5	1/2	na
District of Columbia	8/13	8/12	8/12	6/6	3/3
Florida	21/52	21/51	19/34	14/16	3/3
Georgia	25/51	23/49	20/36	12/12	4/4
Hawaii	2/6	2/6	2/4	1/1	1/1
Idaho	3/7	3/7	3/5	3/3	na
Illinois	27/74	27/70	23/51	13/24	7/7
Indiana	15/46	15/44	11/37	6/12	1/1
Iowa	14/37	14/37	9/21	5/6	1/1
Kansas	8/26	8/26	7/18	5/5	1/1
Kentucky	7/33	7/32	7/22	3/6	2/2
Louisiana	16/22	16/22	15/19	9/9	3/3
Maine	9/18	9/18	4/9	2/2	na
Maryland	19/32	18/31	17/29	11/13	3/3
Massachusetts	34/76	32/69	28/59	21/27	4/4
Michigan	19/47	19/47	16/33	9/11	3/3
Minnesota	16/42	15/38	13/26	6/11	3/3
Mississippi	11/16	11/16	9/12	5/5	1/1
Missouri	14/49	12/45	12/33	7/10	4/4
Montana	6/10	6/10	3/6	2/2	na
Nebraska	5/22	5/22	5/16	4/4	2/2
Nevada	2/3	2/3	2/2	2/2	1/1
New Hampshire	5/18	5/17	4/11	3/4	1/1
New Jersey	17/29	17/29	17/27	9/11	2/2
New Mexico	5/9	5/9	5/9	3/3	1/1
New York	78/144	71/130	66/113	35/43	12/12
North Carolina	22/53	22/53	18/34	13/14	4/4
North Dakota	3/9	3/9	3/4	2/2	1/1
Ohio	29/72	28/71	25/57	14/18	6/6
Oklahoma	9/24	9/24	9/17	4/5	1/1
Oregon	11/27	10/26	11/22	4/6	1/1
Pennsylvania	48/129	47/122	35/86	17/29	6/6
Puerto Rico	16/30	14/27	13/16	7/8	3/3
Rhode Island	4/10	4/10	4/9	3/5	1/1
South Carolina	11/34	11/33	9/21	4/7	2/2
South Dakota	5/14	5/14	5/12	3/3	1/1
Tennessee	15/47	13/43	15/35	11/15	4/4
Texas	51/94	49/86	46/75	35/42	7/7
Utah	5/7	5/7	4/6	3/3	1/1
Vermont	2/17	2/16	2/13	2/2	1/1
Virginia	23/48	22/44	21/31	14/14	3/3
Washington	13/24	13/24	12/21	4/5	1/1
West Virginia	9/21	9/20	5/9	2/2	2/2
Wisconsin	20/36	19/34	18/30	5/7	2/2
Wyoming	1/1	1/1	1/1	1/1	na

NOTE: The units of multicampus universities and university systems were counted separately. See Appendix D for a complete list of the universities and colleges and their campuses in each state.

Table C.9 (Detail)

Top 100 Universities and Colleges, Including and Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Rank	University or College (Including Medical School)	Total Federal Funds Received for the Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for the Conduct of R&D
1	Johns Hopkins University	968,346,779	1	Johns Hopkins University	603,852,921
2	University of Washington, Seattle	518,105,691	2	Massachusetts Institute of Technology	380,832,879
3	University of Pennsylvania	458,468,017	3	University of Washington, Seattle	267,170,274
4	University of Michigan, Ann Arbor	428,841,708	4	University of Wisconsin, Madison	252,542,298
5	University of California, Los Angeles	412,554,554	5	University of California, Berkeley	223,779,543
6	University of California, San Diego	405,563,825	6	University of California, San Diego	223,136,224
7	Stanford University	386,003,275	7	Pennsylvania State University, University Park	221,313,180
8	Massachusetts Institute of Technology	380,832,879	8	University of Michigan, Ann Arbor	215,671,996
9	University of Wisconsin, Madison	364,986,252	9	University of Illinois, Urbana-Champaign	206,263,136
10	Washington University, St Louis	360,440,828	10	University of Minnesota, Twin Cities	193,278,629
11	University of California, San Francisco	356,743,364	11	University of California, Los Angeles	192,972,655
12	University of Pittsburgh	336,901,314	12	Harvard University	192,739,471
13	Columbia University	334,901,399	13	Stanford University	178,020,188
14	Harvard University	332,530,435	14	University of Colorado, Boulder	156,690,828
15	Duke University	327,315,626	15	Cornell University	148,985,584
16	Yale University	312,309,557	16	University of Texas, Austin	140,822,610
17	University of Minnesota, Twin Cities	309,877,336	17	University of North Carolina, Chapel Hill	139,203,963
18	University of North Carolina, Chapel Hill	307,967,854	18	University of Texas, MD Anderson Cancer Center	137,474,907
19	Baylor College of Medicine	273,931,037	19	University of Maryland, College Park	134,507,747
20	University of Alabama, Birmingham	260,792,305	20	Columbia University	128,680,046
21	Cornell University	258,544,760	21	University of California, Davis	128,490,293
22	University of Southern California	223,851,269	22	University of Pittsburgh	119,780,447
23	University of California, Berkeley	223,779,543	23	University of Arizona	119,223,966
24	Vanderbilt University	223,742,350	24	University of Pennsylvania	118,325,960
25	Pennsylvania State University, University Park	221,313,180	25	University of Southern California	116,338,283
26	University of Illinois, Urbana-Champaign	206,263,136	26	University of Hawaii, Manoa	110,396,337
27	Case Western Reserve University	195,106,497	27	Ohio State University, Columbus (includes AES at Wooster)	109,670,240
28	University of Rochester	189,376,514	28	Georgia Institute of Technology	106,881,077
29	University of California, Davis	189,264,822	29	Rutgers University, New Brunswick	106,544,770
30	Emory University	189,186,474	30	University of Florida	102,406,730
31	University of Arizona	184,787,624	31	University of Alabama, Birmingham	101,215,410
32	University of Iowa	176,503,090	32	Texas A&M University, College Station	94,889,514
33	Boston University	175,652,126	33	Michigan State University	93,631,243
34	Ohio State University, Columbus (includes AES at Wooster)	173,332,020	34	Purdue University	92,739,428
35	University of Chicago	172,475,309	35	University of Georgia	90,673,538

Table C.9 (Detail) (continued)

Rank	University or College (Including Medical School)	Total Federal Funds Received for the Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for the Conduct of R&D
36	University of Colorado System Health Sciences Center	171,217,091	36	Carnegie Mellon University	81,445,898
37	University of Virginia, Charlottesville	167,559,784	37	University of California, Irvine	81,278,674
38	Oregon Health & Science University	166,774,546	38	Duke University	80,581,034
39	University of Florida	165,041,811	39	Princeton University	79,803,995
40	University of Texas, Southwestern Medical Center at Dallas	162,647,874	40	Colorado State University	78,080,076
41	Northwestern University	161,234,045	41	University of Illinois, Chicago	77,948,842
42	University of Colorado, Boulder	156,690,828	42	Boston University	77,713,293
43	University of Utah	154,795,096	43	University of California, Santa Barbara	71,720,775
44	Mount Sinai School of Medicine	150,446,538	44	University of California, San Francisco	71,311,258
45	Mayo Medical School	148,057,109	45	Oregon State University	69,895,307
46	New York University	143,198,057	46	Rockefeller University	69,404,849
47	University of Illinois, Chicago	142,885,797	47	Northwestern University	68,818,288
48	University of Texas, Austin	140,822,610	48	University of Rochester	68,588,807
49	Yeshiva University	138,929,910	49	Yale University	66,572,770
50	University of Texas, MD Anderson Cancer Center	137,474,907	50	George Washington University (includes Mount Vernon campus)	66,468,174
51	University of California, Irvine	135,703,283	51	California Institute of Technology	63,951,569
52	University of Maryland, College Park	134,507,747	52	North Carolina State University	63,026,231
53	University of Maryland, Baltimore	128,207,993	53	University of Utah	60,458,472
54	University of Hawaii, Manoa	120,815,130	54	Iowa State University	60,424,044
55	University of Miami	119,676,758	55	Arizona State University, Tempe	56,955,731
56	University of Cincinnati	109,719,032	56	Indiana University, Bloomington	56,276,073
57	Wake Forest University	109,377,419	57	University of Iowa	56,164,787
58	Georgia Institute of Technology	106,881,077	58	University of Massachusetts, Amherst	55,792,193
59	University of Medicine & Dentistry of New Jersey	106,805,489	59	Virginia Polytechnic Institute and State University	55,767,661
60	Rutgers University, New Brunswick	106,544,770	60	University of Missouri, Columbia	55,659,036
61	University of Kentucky	105,092,273	61	University of New Mexico	54,239,722
62	Wayne State University	102,689,881	62	University of Virginia, Charlottesville	53,704,384
63	University of Texas, Health Science Center at Houston	101,688,198	63	State University of New York, Stony Brook	53,487,674
64	Michigan State University	100,967,246	64	Utah State University	52,797,411
65	University of Connecticut	96,507,764	65	University of Alaska, Fairbanks	52,390,100
66	Indiana University - Purdue University at Indianapolis	95,879,375	66	University of Nebraska, Lincoln	51,786,237
67	Dartmouth College	95,271,548	67	University of Kentucky	51,105,784
68	Texas A&M University, College Station	94,889,514	68	Vanderbilt University	51,056,585
69	Purdue University	92,739,428	69	University of Tennessee, Knoxville	50,970,117
70	Medical University of South Carolina	92,117,028	70	Washington State University, Pullman	50,038,009
71	University of Massachusetts, Medical School at Worcester	91,766,651	71	State University of New York, Buffalo	49,863,830

Table C.9 (Detail) (continued)

Rank	University or College (Including Medical School)	Total Federal Funds Received for the Conduct of R&D	Rank	University or College (Excluding Medical School)	Total Federal Funds Received for the Conduct of R&D
72	University of Georgia	90,673,538	72	Case Western Reserve University	48,885,200
73	University of New Mexico	88,509,905	73	Emory University	48,692,373
74	State University of New York, Stony Brook	87,644,268	74	Oregon Health & Science University	48,631,772
75	Georgetown University	83,320,760	75	University of Chicago	47,528,773
76	George Washington University (includes Mount Vernon campus)	82,962,959	76	Wayne State University	46,677,305
77	Medical College of Wisconsin	81,926,851	77	University of Delaware	46,179,667
78	Carnegie Mellon University	81,445,898	78	University of Kansas, Lawrence	45,758,948
79	University of Texas, Health Science Center at San Antonio	81,405,984	79	Louisiana State University, Baton Rouge	44,981,609
80	University of Texas, Medical Branch-Galveston	80,894,637	80	Washington University, St Louis	44,646,153
81	Thomas Jefferson University	80,137,024	81	University of Connecticut	43,700,268
82	Princeton University	79,803,995	82	Mississippi State University	43,634,342
83	Virginia Commonwealth University	79,317,379	83	University of South Florida, Tampa	43,336,370
84	Colorado State University	78,080,076	84	University of Miami	41,160,753
85	Brown University	75,200,770	85	Brown University	39,950,693
86	State University of New York, Buffalo	74,169,652	86	University of Oregon	39,893,389
87	University of South Florida, Tampa	72,080,182	87	University of New Hampshire, Durham	37,850,530
88	University of Vermont	71,957,411	88	Florida State University	37,317,951
89	University of California, Santa Barbara	71,720,775	89	New York University	36,480,498
90	Oregon State University	69,895,307	90	University of California, Santa Cruz	36,380,261
91	Rockefeller University	69,404,849	91	University of Notre Dame	35,384,037
92	University of Missouri, Columbia	67,457,235	92	Tulane University	35,312,558
93	California Institute of Technology	63,951,569	93	University of Maryland, Baltimore County	35,169,875
94	North Carolina State University	63,026,231	94	Dartmouth College	34,497,037
95	Iowa State University	60,424,044	95	University of California, Riverside	34,486,910
96	Tulane University	59,745,952	96	Georgetown University	34,083,874
97	Arizona State University, Tempe	56,955,731	97	Montana State University, Bozeman	33,337,405
98	Indiana University, Bloomington	56,276,073	98	West Virginia University	33,031,420
99	Tufts University	56,197,903	99	University of Maryland, Baltimore	32,095,461
100	University of Massachusetts, Amherst	55,792,193	100	University of South Carolina, Columbia	31,736,743

Table C.10 (Detail)
Federal Funds Provided to Medical Schools for Conduct of R&D in FY 2002,
by Medical School in Rank Order

Rank	Medical School ^a	Total Federal Funds Received for the Conduct of R&D
1	John Hopkins University School of Medicine	364,493,858
2	University of Pennsylvania School of Medicine	340,142,057
3	Washington University School of Medicine	315,794,675
4	University of California, San Francisco - School of Medicine	285,432,106
5	Baylor College of Medicine	272,426,074
6	University of Washington School of Medicine	250,935,417
7	Duke University School of Medicine	246,734,592
8	Yale University School of Medicine	245,736,787
9	University of California, Los Angeles - Geffen School of Medicine	219,581,899
10	University of Pittsburgh School of Medicine	217,120,867
11	University of Michigan Medical School	213,169,712
12	Stanford University School of Medicine	207,983,087
13	Columbia University College of Physicians and Surgeons	206,221,353
14	University of California, San Diego - School of Medicine	182,427,601
15	Vanderbilt University School of Medicine	172,685,765
16	University of North Carolina at Chapel Hill School of Medicine	168,763,891
17	University of Texas, Southwestern Medical Center at Dallas	162,430,979
18	University of Alabama School of Medicine	159,576,895
19	University of Colorado System Health Sciences Center	158,631,658
20	Mount Sinai School of Medicine	148,321,247
21	Mayo Medical School	148,057,109
22	Case Western Reserve University School of Medicine	146,221,297
23	Emory University School of Medicine	140,494,101
24	Harvard Medical School	139,790,964
25	Yeshiva University Albert Einstein College of Medicine	129,827,962
26	University of Chicago Pritzker School of Medicine	124,946,536
27	University of Rochester School of Medicine	120,787,707
28	University of Iowa College of Medicine	120,338,303
29	Oregon Health and Science University School of Medicine	118,142,774
30	University of Minnesota School of Medicine - Twin Cities	116,598,707
31	University of Virginia School of Medicine	113,855,400
32	University of Wisconsin School of Medicine	112,443,954
33	Cornell University - Weill Medical College	109,559,176
34	University of Southern California Keck School of Medicine	107,512,986
35	New York University School of Medicine	106,717,559
36	Wake Forest University School of Medicine	103,314,301
37	Boston University School of Medicine	97,938,833
38	University of Maryland School of Medicine	96,112,532
39	University of Utah School of Medicine	94,336,624
40	Northwestern University, Chicago - Medical Center	92,415,757
41	University of Massachusetts, Medical School at Worcester	89,185,560
42	Indiana University School of Medicine at Indianapolis	88,137,186
43	Medical University of South Carolina	85,323,004
44	University of Cincinnati College of Medicine	84,025,831
45	Medical College of Wisconsin	80,151,361
46	Thomas Jefferson University - Jefferson Medical College	80,137,024
47	University of Miami School of Medicine	78,516,005
48	University of Texas, Medical Branch-Galveston	78,144,249
49	University of Texas. Health Science Center at Houston	77,354,824
50	University of Texas, Health Science Center at San Antonio	70,927,736
51	University of Arizona College of Medicine	65,563,658
52	University of Illinois at Chicago College of Medicine	64,936,955
53	Ohio State University College of Medicine and Public Health	63,661,780
54	University of Florida College of Medicine	62,635,081
55	University of California, Davis - School of Medicine	60,774,529
56	Dartmouth Medical School	60,774,511

Table C.10 (Detail) (continued)

Rank	Medical School ^a	Total Federal Funds Received for the Conduct of R&D
57	UMDNJ - Robert Wood Johnson Medical School	57,610,612
58	Wayne State University School of Medicine	56,012,576
59	University of Vermont College of Medicine	55,148,661
60	University of California, Irvine - School of Medicine	54,424,609
61	University of Kentucky College of Medicine	53,986,489
62	University of Connecticut Health Center	52,807,496
63	Virginia Commonwealth University - Medical College of Virginia	52,359,055
64	Georgetown University Medical School	49,236,886
65	Rush University Medical College	46,929,666
66	UMDNJ - New Jersey Medical School	46,058,128
67	Tufts University School of Medicine	42,902,847
68	Pennsylvania State University College of Medicine	41,218,351
69	University of Arkansas - Medical Sciences	40,106,026
70	University of Tennessee System Health Science Center at Memphis	36,888,853
71	University of Kansas Medical Center	36,588,814
72	Brown University Medical School	35,250,077
73	University of New Mexico Health Science Center	34,270,183
74	State University of New York - Stony Brook Health Science Center	34,156,594
75	University of Oklahoma Health Sciences Center	32,103,443
76	Morehouse School of Medicine	29,200,036
77	Temple University School of Medicine	28,869,370
78	University of South Florida College of Medicine	28,743,812
79	University of Nebraska System Medical Center	28,145,257
80	University of Puerto Rico School of Medicine	27,693,231
81	University of Louisville School of Medicine	27,405,491
82	Medical College of Georgia	25,405,660
83	Loyola University Chicago Stritch School of Medicine	25,096,368
84	State University of New York - Health Science Center at Brooklyn	24,961,414
85	Tulane University School of Medicine	24,433,394
86	State University of New York - Buffalo School of Medicine & Biomedical Sciences	24,305,822
87	Saint Louis University School of Medicine	22,777,885
88	Meharry Medical College	21,981,183
89	Louisiana State University School of Medicine at New Orleans	20,700,295
90	New York Medical College	20,157,677
91	Charles R. Drew University of Medicine and Science	16,990,406
92	George Washington University School of Medicine and Health Sciences	16,494,785
93	Howard University College of Medicine	16,004,542
94	State University of New York - Health Science Center at Syracuse	15,970,579
95	Drexel University - Health Sciences	15,610,040
96	University of Mississippi Medical Center	14,223,773
97	Texas A&M University Health Science Center	13,922,263
98	Loma Linda University School of Medicine	13,200,505
99	University of Missouri at Columbia School of Medicine	11,798,199
100	University of Nevada School of Medicine	11,720,921
101	Medical College of Ohio	11,562,036
102	University of South Alabama College of Medicine	11,153,321
103	West Virginia University School of Medicine	10,646,187
104	Louisiana State University School of Medicine at Shreveport	10,535,566
105	University of Hawaii School of Medicine	10,418,793
106	Albany Medical College	10,113,727
107	Texas Tech University Health Sciences Center	8,381,658
108	University of North Dakota School of Medicine and Health Sciences	8,012,392
109	Wright State University School of Medicine	7,969,505
110	Michigan State University College of Human Medicine	7,336,003
111	University of South Dakota School of Medicine	6,877,606
112	Universidad Central del Caribe School of Medicine	6,666,018
113	Ponce School of Medicine	6,077,903
114	University of Missouri at Kansas City School of Medicine	6,059,137

Table C.10 (Detail) (continued)

Rank	Medical School ^a	Total Federal Funds Received for the Conduct of R&D
115	Eastern Virginia Medical School - Medical College of Hampton Roads	5,956,505
116	Finch University of Health Sciences - The Chicago Medical School	5,903,512
117	Southern Illinois University School of Medicine	4,795,209
118	East Carolina University Brody School of Medicine	3,544,209
119	Creighton University School of Medicine	3,531,708
120	University of South Carolina School of Medicine	3,248,573
121	Marshall University John C. Edwards School of Medicine	2,581,852
122	East Tennessee State University College of Medicine	2,541,027
123	University of Minnesota School of Medicine at Duluth	1,952,299
124	Northeastern Ohio Universities College of Medicine	1,380,226
125	Mercer University School of Medicine	1,324,462
126	The Uniformed Services University of the Health Sciences	0

^a Osteopathic, chiropractic, and podiatry schools not included.

Table C.11

**Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Health and Human Services
in FY 2002 for Conduct of R&D**

Rank	University or College (including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	Johns Hopkins University	515,605,030	29,998,000	411,000,404	74,606,626	1	Massachusetts Institute of Technology	177,217,951	343,000	97,883,764	78,991,187
2	University of Pennsylvania	416,165,935	2,484,000	385,982,149	27,699,786	2	Johns Hopkins University	160,469,085	26,576,000	102,151,640	31,741,445
3	University of Washington, Seattle	398,273,934	8,077,000	341,736,654	48,460,280	3	University of Washington, Seattle	147,338,517	8,077,000	125,787,258	13,474,259
4	University of California, San Francisco	352,316,770	11,018,000	300,952,717	40,346,053	4	Harvard University	142,825,488	639,000	119,906,557	22,279,931
5	Washington University, St. Louis	343,307,870	10,911,000	238,800,839	93,596,031	5	University of Wisconsin, Madison	119,407,877	16,719,000	101,460,362	1,228,515
6	University of Michigan, Ann Arbor	324,029,847	5,885,000	285,670,215	32,474,632	6	University of Texas, MD Anderson Cancer Center	115,976,285	7,712,000	87,321,142	20,943,143
7	University of California, Los Angeles	322,066,590	11,070,000	277,732,123	33,264,467	7	University of Michigan, Ann Arbor	110,860,135	5,885,000	85,183,723	19,791,412
8	University of Pittsburgh	311,633,246	9,536,000	245,499,961	56,597,285	8	University of Minnesota, Twin Cities	105,378,762	18,805,000	63,457,984	23,115,778
9	Yale University	285,575,642	5,068,000	268,958,830	11,548,812	9	University of California, Los Angeles	102,484,691	11,070,000	84,319,572	7,095,119
10	Harvard University	282,142,508	639,000	242,563,057	38,940,451	10	University of North Carolina, Chapel Hill	98,749,900	24,513,000	67,997,719	6,239,181
11	Duke University	278,148,213	7,797,000	217,290,315	53,060,898	11	University of California, Berkeley	95,969,058	983,000	93,891,842	1,094,216
12	Columbia University	269,431,638	4,715,000	246,196,399	18,520,239	12	University of Pittsburgh	95,002,379	9,536,000	58,194,763	27,271,616
13	University of North Carolina, Chapel Hill	267,513,791	24,513,000	220,132,499	22,868,292	13	University of Pennsylvania	76,023,878	2,484,000	71,274,325	2,265,553
14	Baylor College of Medicine	263,513,939	8,818,000	171,366,603	83,329,336	14	University of Alabama, Birmingham	72,128,400	29,181,000	31,980,285	10,967,115
15	University of California, San Diego	247,471,867	5,764,000	213,152,848	28,555,019	15	Rockefeller University	67,974,682	2,053,000	64,360,517	1,561,165
16	Stanford University	246,262,554	4,857,000	218,857,699	22,547,855	16	University of California, San Francisco	66,884,664	10,484,000	51,620,949	4,779,715
17	University of Wisconsin, Madison	231,851,831	16,894,000	207,273,121	7,684,710	17	University of California, San Diego	65,044,266	3,578,000	60,761,967	704,299
18	University of Alabama, Birmingham	231,705,295	29,181,000	160,069,218	42,455,077	18	Columbia University	64,137,292	2,154,000	53,977,974	8,005,318
19	University of Minnesota, Twin Cities	221,977,469	18,805,000	172,193,625	30,978,844	19	Cornell University	55,359,220	4,171,000	50,862,746	325,474
20	Vanderbilt University	194,612,389	3,262,000	172,665,716	18,684,673	20	Vernon campus)	54,208,088	6,917,000	2,117,375	45,173,713
21	Case Western Reserve University	183,643,460	18,431,000	149,943,005	15,269,455	21	University of California, Davis	50,196,134	2,238,000	43,577,500	4,380,634
22	Emory University	181,167,187	5,406,000	167,890,152	7,871,035	22	University of Illinois, Chicago	46,396,064	1,048,000	42,454,888	2,893,176
23	Massachusetts Institute of Technology	177,217,951	343,000	97,883,764	78,991,187	23	Boston University	46,265,113	2,333,000	42,088,888	1,843,225
24	Center	169,478,199	3,643,000	144,135,750	21,699,449	24	University of Illinois, Urbana-Champaign	44,087,100	0	44,087,100	0
25	Cornell University	161,992,047	6,454,000	149,439,622	6,098,425	25	Rutgers University, New Brunswick	43,808,976	459,000	43,349,976	0
26	Dallas	159,416,833	10,996,000	123,419,241	25,001,592	26	University of Southern California	43,491,746	4,185,000	39,306,746	0
27	Oregon Health & Science University	153,324,716	0	140,513,748	12,810,968	27	University of Texas, Austin	41,535,413	0	37,777,783	3,757,630
28	University of Iowa	151,683,298	2,383,000	144,793,735	4,506,563	28	Emory University	40,999,255	2,223,000	36,720,891	2,055,364
29	University of Southern California	151,004,732	4,185,000	132,288,878	14,530,854	29	Yale University	39,838,855	5,068,000	34,283,627	487,228
30	Boston University	144,173,946	2,333,000	137,303,188	4,537,758	30	University of Georgia	39,524,344	1,051,000	38,065,051	408,293
31	Mount Sinai School of Medicine	142,508,058	2,805,000	134,131,828	5,571,230	31	Pennsylvania State University, University Park	39,312,921	356,000	38,602,043	354,878
32	University of Chicago	141,485,963	1,317,000	119,078,387	21,090,576	32	Northwestern University	38,344,780	1,744,000	30,736,303	5,864,477
33	Mayo Medical School	138,679,631	1,416,000	118,663,393	18,600,238	33	Stanford University	38,279,467	4,857,000	33,422,467	0
34	University of Rochester	135,708,763	4,039,000	122,658,354	9,011,409	34	Wooster)	38,189,195	1,884,000	30,899,821	5,405,374
35	University of Virginia, Charlottesville	134,609,726	0	120,302,304	14,307,422	35	University of California, Irvine	37,979,875	1,682,000	35,424,257	873,618
36	Yeshiva University	133,596,421	2,189,000	129,408,298	1,999,123	36	Duke University	37,739,329	3,532,000	33,640,977	566,352
37	Northwestern University	130,711,056	3,312,000	113,659,435	13,739,621	37	University of Arizona	37,582,571	469,000	36,068,152	1,045,419
38	New York University	126,011,089	461,000	115,820,827	9,729,262	38	Case Western Reserve University	37,422,163	18,431,000	18,991,163	0
39	University of Utah	122,822,897	9,903,000	102,080,603	10,839,294	39	University of Colorado, Boulder	36,831,277	0	36,831,277	0
40	University of Maryland, Baltimore	121,201,844	10,764,000	99,738,771	10,699,073	40	Princeton University	36,169,890	0	35,169,890	1,000,000
41	University of Texas, MD Anderson Cancer Center	115,976,285	7,712,000	87,321,142	20,943,143	41	University of Hawaii, Manoa	35,789,630	3,046,000	28,572,655	4,170,975
42	University of Illinois, Chicago	111,329,981	1,048,000	102,308,346	7,973,635	42	Oregon Health & Science University	35,181,942	0	31,113,560	4,068,382
43	University of California, Davis	110,970,663	2,238,000	97,238,532	11,494,131	43	Colorado State University	33,073,261	2,629,000	30,110,485	333,776
44	Wake Forest University	106,737,406	10,434,000	80,219,652	16,083,754	44	University of Iowa	31,799,995	2,028,000	29,771,995	0
45	University of Arizona	103,146,229	2,224,000	89,664,196	11,258,033	45	California Institute of Technology	30,659,744	0	30,659,744	0
46	Wooster)	101,589,975	1,884,000	88,250,026	11,455,949	46	Indiana University, Bloomington	29,585,770	3,960,000	25,150,770	475,000
47	University of Medicine & Dentistry of New Jersey	98,222,658	6,283,000	81,046,784	10,892,874	47	University of Utah	29,290,273	297,000	28,192,882	800,391
48	University of California, Berkeley	95,969,058	983,000	93,891,842	1,094,216	48	Washington University, St. Louis	28,915,321	10,140,000	18,775,321	0
49	University of Miami	94,769,904	3,131,000	77,824,907	13,813,997	49	Purdue University	28,651,590	0	28,219,909	431,681
50	University of Cincinnati	92,749,535	4,555,000	75,398,824	12,795,711	50	University of Florida	28,488,894	1,616,000	26,872,894	0

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from HHS by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

Table C.12

Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by National Science Foundation in FY 2002 for Conduct of R&D

Rank	University or College (including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	University of Illinois, Urbana-Champaign	106,771,291	0	53,239,942	53,531,349	1	University of Illinois, Urbana-Champaign	106,771,291	0	53,239,942	53,531,349
2	University of California, San Diego	102,460,226	0	43,230,651	59,229,575	2	University of California, San Diego	102,460,226	0	43,230,651	59,229,575
3	University of Washington, Seattle	61,182,270	0	51,952,584	9,229,686	3	University of Washington, Seattle	61,182,270	0	51,952,584	9,229,686
4	Massachusetts Institute of Technology	59,299,086	0	41,812,237	17,486,849	4	Massachusetts Institute of Technology	59,299,086	0	41,812,237	17,486,849
5	University of California, Berkeley	57,194,835	0	52,894,524	4,300,311	5	University of California, Berkeley	57,194,835	0	52,894,524	4,300,311
6	University of Michigan, Ann Arbor	50,664,476	0	40,539,831	10,124,645	6	University of Michigan, Ann Arbor	50,664,476	0	40,539,831	10,124,645
7	University of Wisconsin, Madison	48,564,925	0	44,993,387	3,571,538	7	University of Wisconsin, Madison	48,564,925	0	44,993,387	3,571,538
8	Cornell University	45,774,327	0	30,050,132	15,724,195	8	Cornell University	45,774,327	0	29,920,431	15,724,195
9	Pennsylvania State University, University Park	41,899,039	0	40,079,039	1,820,000	9	Pennsylvania State University, University Park	41,899,039	0	40,079,039	1,820,000
10	University of Minnesota, Twin Cities	40,512,955	0	29,159,113	11,353,842	10	University of Minnesota, Twin Cities	40,512,955	0	29,159,113	11,353,842
11	University of California, Los Angeles	40,358,084	0	32,600,687	7,757,397	11	University of California, Los Angeles	40,358,084	0	32,600,687	7,757,397
12	Georgia Institute of Technology	38,536,474	0	33,260,130	5,276,344	12	Georgia Institute of Technology	38,536,474	0	33,260,130	5,276,344
13	University of Arizona	38,447,826	0	30,970,748	7,477,078	13	University of Arizona	38,447,826	0	30,970,748	7,477,078
14	Michigan State University	37,407,057	0	21,161,692	16,245,365	14	Michigan State University	37,407,057	0	21,161,692	16,245,365
15	University of California, Davis	35,437,164	0	31,211,592	4,225,572	15	University of California, Davis	35,437,164	0	31,211,592	4,225,572
16	University of California, Santa Barbara	35,177,037	0	28,136,913	7,040,124	16	University of California, Santa Barbara	35,177,037	0	28,136,913	7,040,124
17	University of Colorado, Boulder	35,052,010	0	33,927,288	1,124,722	17	University of Colorado, Boulder	35,052,010	0	33,927,288	1,124,722
18	Rutgers University, New Brunswick	34,830,485	0	27,953,306	6,877,179	18	Rutgers University, New Brunswick	34,830,485	0	27,953,306	6,877,179
19	University of Maryland, College Park	33,809,858	0	31,909,858	1,900,000	19	University of Maryland, College Park	33,809,858	0	31,909,858	1,900,000
20	University of Florida	30,329,606	0	26,697,106	3,632,500	20	University of Florida	30,329,606	0	26,697,106	3,632,500
21	Wooster)	29,078,130	0	26,928,130	2,150,000	21	Wooster)	29,078,130	0	26,928,130	2,150,000
22	Purdue University	28,915,272	0	27,302,319	1,612,953	22	Purdue University	28,915,272	0	27,302,319	1,612,953
23	University of Texas, Austin	28,758,223	0	28,486,001	272,222	23	University of Texas, Austin	28,758,223	0	28,486,001	272,222
24	Carnegie Mellon University	27,802,715	0	25,348,220	2,454,495	24	Carnegie Mellon University	27,802,715	0	25,348,220	2,454,495
25	Columbia University	24,857,573	0	18,725,440	6,132,133	25	Columbia University	24,857,573	0	18,725,440	6,132,133
26	Texas A&M University, College Station	23,067,406	0	17,341,826	5,725,580	26	Texas A&M University, College Station	23,067,406	0	17,341,826	5,725,580
27	Arizona State University, Tempe	22,953,376	0	22,938,876	14,500	27	Arizona State University, Tempe	22,953,376	0	22,938,876	14,500
28	State University of New York, Stony Brook	22,259,078	0	18,932,077	3,327,001	28	State University of New York, Stony Brook	22,259,078	0	18,932,077	3,327,001
29	Stanford University	22,176,676	0	17,982,049	4,194,627	29	Stanford University	22,176,676	0	17,982,049	4,194,627
30	Virginia Polytechnic Institute and State University	21,796,161	0	15,449,018	6,347,143	30	Virginia Polytechnic Institute and State University	21,796,161	0	15,449,018	6,347,143
31	Johns Hopkins University	21,775,658	0	13,727,764	8,047,894	31	Johns Hopkins University	21,775,658	0	13,727,764	8,047,894
32	Oregon State University	21,456,852	0	17,942,987	3,513,865	32	Oregon State University	21,456,852	0	17,942,987	3,513,865
33	University of California, Irvine	21,083,209	0	21,083,209	0	33	University of California, Irvine	21,083,209	0	21,083,209	0
34	University of Massachusetts, Amherst	20,570,118	0	18,647,118	1,923,000	34	University of Massachusetts, Amherst	20,570,118	0	18,647,118	1,923,000
35	Indiana University, Bloomington	20,280,947	0	18,499,988	1,780,959	35	Indiana University, Bloomington	20,280,947	0	18,499,988	1,780,959
36	University of Southern California	19,324,910	0	13,912,204	5,412,706	36	University of Southern California	19,324,910	0	13,912,204	5,412,706
37	University of Hawaii, Manoa	18,824,098	0	13,781,544	5,042,554	37	University of Hawaii, Manoa	18,824,098	0	13,781,544	5,042,554
38	University of North Carolina, Chapel Hill	18,661,872	0	15,274,116	3,387,756	38	University of North Carolina, Chapel Hill	18,661,872	0	15,274,116	3,387,756
39	University of Utah	18,519,447	0	18,021,361	498,086	39	University of Utah	18,519,447	0	18,021,361	498,086
40	North Carolina State University	17,833,415	0	16,077,063	1,756,352	40	North Carolina State University	17,833,415	0	16,077,063	1,756,352
41	University of Virginia, Charlottesville	17,490,584	0	16,490,584	1,000,000	41	University of Virginia, Charlottesville	17,490,584	0	16,490,584	1,000,000
42	University of Georgia	16,777,037	0	16,463,599	313,438	42	University of Georgia	16,777,037	0	16,463,599	313,438
43	University of Illinois, Chicago	16,691,261	0	16,691,261	0	43	University of Illinois, Chicago	16,688,223	0	16,688,223	0
44	University of Chicago	16,649,673	0	11,452,130	5,197,543	44	University of Chicago	16,649,673	0	11,452,130	5,197,543
45	California Institute of Technology	15,892,232	0	13,992,232	1,900,000	45	California Institute of Technology	15,892,232	0	13,992,232	1,900,000
46	State University of New York, Buffalo	15,734,224	0	11,168,319	4,565,905	46	State University of New York, Buffalo	15,734,224	0	11,168,319	4,565,905
47	Harvard University	15,660,538	0	11,665,538	3,995,000	47	Harvard University	15,660,538	0	11,665,538	3,995,000
48	Colorado State University	15,650,486	0	15,015,996	634,490	48	Colorado State University	15,650,486	0	15,015,996	634,490
49	University of Pennsylvania	14,675,138	0	12,107,138	2,568,000	49	University of Pennsylvania	14,675,138	0	12,107,138	2,568,000
50	Iowa State University	14,119,226	0	13,386,290	732,936	50	Iowa State University	14,119,226	0	13,386,290	732,936

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from NSF by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

Table C.13

**Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Defense in FY 2002
for Conduct of R&D**

Rank	University or College (Including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	Johns Hopkins University	240,151,144	222,869,000	12,541,606	4,740,538	1	Johns Hopkins University	239,451,144	222,869,000	11,841,606	4,740,538
2	Pennsylvania State University, University Park	83,799,937	77,878,000	5,626,465	295,472	2	Pennsylvania State University, University Park	83,799,937	77,878,000	5,626,465	295,472
3	Massachusetts Institute of Technology	45,873,567	9,354,000	19,532,431	16,987,136	3	Massachusetts Institute of Technology	45,873,567	9,354,000	19,532,431	16,987,136
4	University of Southern California	41,761,332	10,357,000	19,446,495	11,957,837	4	University of Southern California	41,761,332	10,357,000	19,446,495	11,957,837
5	University of Texas, Austin	41,700,196	38,587,000	2,563,196	550,000	5	University of Texas, Austin	41,700,196	38,587,000	2,563,196	550,000
6	Stanford University	33,468,510	4,917,000	17,465,799	11,085,711	6	Stanford University	33,468,510	4,917,000	17,465,799	11,085,711
7	Georgia Institute of Technology	32,779,994	21,446,000	10,521,144	812,850	7	Georgia Institute of Technology	32,779,994	21,446,000	10,521,144	812,850
8	Carnegie Mellon University	25,645,490	7,467,000	8,579,799	9,598,691	8	Carnegie Mellon University	25,645,490	7,467,000	8,579,799	9,598,691
9	University of California, Los Angeles	24,274,537	4,400,000	14,706,153	5,168,384	9	University of California, Los Angeles	24,274,537	4,400,000	14,706,153	5,168,384
10	Duke University	23,138,551	5,477,000	16,061,551	1,600,000	10	University of California, Berkeley	22,108,034	7,613,000	11,746,832	2,748,202
11	University of California, Berkeley	22,108,034	7,613,000	11,746,832	2,748,202	11	University of Dayton	21,906,000	21,906,000	0	0
12	University of Dayton	21,906,000	21,906,000	0	0	12	University of Texas, MD Anderson Cancer Center	20,625,395	0	20,625,395	0
13	University of Texas, MD Anderson Cancer Center	20,625,395	0	20,625,395	0	13	University of Wisconsin, Madison	20,363,578	1,133,000	11,232,250	7,998,328
14	University of Wisconsin, Madison	20,363,578	1,133,000	11,232,250	7,998,328	14	University of Hawaii, Manoa	18,264,230	17,849,000	410,762	4,468
15	Cornell University	18,460,504	446,000	14,962,050	3,052,454	15	University of Pennsylvania	18,015,563	1,290,000	12,366,581	4,358,982
16	University of Hawaii, Manoa	18,264,230	17,849,000	410,762	4,468	16	University of South Florida, Tampa	17,861,645	15,380,000	2,481,645	0
17	University of Pennsylvania	18,015,563	1,290,000	12,366,581	4,358,982	17	Duke University	17,661,551	0	16,061,551	1,600,000
18	University of South Florida, Tampa	17,861,645	15,380,000	2,481,645	0	18	University of Washington, Seattle	17,040,201	10,418,000	5,622,201	1,000,000
19	University of Washington, Seattle	17,040,201	10,418,000	5,622,201	1,000,000	19	University of Michigan, Ann Arbor	16,516,418	1,664,000	11,375,752	3,476,666
20	University of Michigan, Ann Arbor	16,516,418	1,664,000	11,375,752	3,476,666	20	Illinois Institute of Technology	15,920,884	15,520,000	400,884	0
21	Illinois Institute of Technology	15,920,884	15,520,000	400,884	0	21	Cornell University	15,663,856	446,000	12,165,402	3,052,454
22	University of New Mexico	15,200,998	1,904,000	12,996,998	300,000	22	University of New Mexico	15,200,998	1,904,000	12,996,998	300,000
23	University of Illinois, Urbana-Champaign	14,140,486	3,521,000	8,831,918	1,787,568	23	University of Illinois, Urbana-Champaign	14,140,486	3,521,000	8,831,918	1,787,568
24	Brown University	13,705,884	2,381,000	11,050,884	274,000	24	Brown University	13,705,884	2,381,000	11,050,884	274,000
25	Mississippi State University	13,399,000	13,399,000	0	0	25	Mississippi State University	13,399,000	13,399,000	0	0
26	University of Maryland, College Park	12,870,111	2,582,000	4,257,769	6,030,342	26	University of Maryland, College Park	12,870,111	2,582,000	4,257,769	6,030,342
27	Utah State University	12,437,499	12,072,000	54,843	310,656	27	Utah State University	12,437,499	12,072,000	54,843	310,656
28	Wooster	12,080,698	1,618,000	9,008,698	1,454,000	28	Wooster	12,080,698	1,618,000	9,008,698	1,454,000
29	University of California, San Diego	12,043,677	2,436,000	9,187,557	420,120	29	University of California, San Diego	12,043,677	2,436,000	9,187,557	420,120
30	Princeton University	11,942,494	250,000	9,502,994	2,189,500	30	Princeton University	11,942,494	250,000	9,502,994	2,189,500
31	University of Mississippi	11,920,994	4,860,000	260,994	6,800,000	31	University of Mississippi	11,920,994	4,860,000	260,994	6,800,000
32	University of Nebraska, Lincoln	11,588,666	96,000	11,492,666	0	32	University of Nebraska, Lincoln	11,588,666	96,000	11,492,666	0
33	University of California, Santa Barabara	11,141,755	579,000	7,204,355	3,358,400	33	University of California, Santa Barabara	11,141,755	579,000	7,204,355	3,358,400
34	University of Arizona	11,050,907	1,613,000	8,651,682	786,225	34	University of Arizona	11,050,907	1,613,000	8,651,682	786,225
35	University of Central Florida	10,814,800	8,792,000	2,022,800	0	35	University of Central Florida	10,814,800	8,792,000	2,022,800	0
36	Arizona State University, Tempe	10,002,372	955,000	2,180,714	6,866,658	36	Arizona State University, Tempe	10,002,372	955,000	2,180,714	6,866,658
37	Vanderbilt University	9,974,646	3,825,000	2,653,430	3,496,216	37	University of Pittsburgh	9,950,660	606,000	9,344,660	0
38	University of Pittsburgh	9,950,660	606,000	9,344,660	0	38	Georgetown University	9,627,622	0	8,525,693	1,101,929
39	Georgetown University	9,879,622	252,000	8,525,693	1,101,929	39	Northwestern University	9,485,984	4,759,000	3,616,912	1,110,072
40	Northwestern University	9,485,984	4,759,000	3,616,912	1,110,072	40	Wayne State University	8,992,488	0	8,992,488	0
41	Mayo Medical School	9,012,587	5,690,000	3,322,587	0	41	Vanderbilt University	8,914,646	2,765,000	2,653,430	3,496,216
42	Wayne State University	8,992,488	0	8,992,488	0	42	University of California, Davis	8,451,061	2,207,000	5,680,363	563,698
43	University of California, Davis	8,451,061	2,207,000	5,680,363	563,698	43	New Mexico Institute of Mining and Technology	8,393,000	638,000	0	7,755,000
44	New Mexico Institute of Mining and Technology	8,393,000	638,000	0	7,755,000	44	University of California, Irvine	8,342,890	2,602,000	4,620,890	1,120,000
45	University of California, Irvine	8,342,890	2,602,000	4,620,890	1,120,000	45	Purdue University	8,288,100	1,488,000	5,468,449	1,331,651
46	Purdue University	8,288,100	1,488,000	5,468,449	1,331,651	46	University of Colorado, Boulder	8,067,218	687,000	5,843,879	1,536,339
47	University of Colorado, Boulder	8,067,218	687,000	5,843,879	1,536,339	47	Virginia Polytechnic Institute and State University	7,506,850	4,217,000	1,989,850	1,300,000
48	Virginia Polytechnic Institute and State University	7,506,850	4,217,000	1,989,850	1,300,000	48	University of Alabama, Birmingham	7,501,120	2,513,000	4,631,120	357,000
49	University of Alabama, Birmingham	7,501,120	2,513,000	4,631,120	357,000	49	University of Minnesota, Twin Cities	7,382,780	714,000	6,668,780	0
50	University of Minnesota, Twin Cities	7,382,780	714,000	6,668,780	0	50	Rutgers University, New Brunswick	6,907,048	3,814,000	3,093,048	0

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from DOD by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

Table C.14

Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by National Aeronautics and Space Administration in FY 2002 for Conduct of R&D

Rank	University or College (Including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	Johns Hopkins University	167,317,018	152,182,000	14,666,878	468,140	1	Johns Hopkins University	160,388,018	145,253,000	14,666,878	468,140
2	Stanford University	64,623,478	51,555,000	9,500,612	3,567,866	2	Stanford University	64,623,478	51,555,000	9,500,612	3,567,866
3	University of Colorado, Boulder	48,332,827	29,047,000	16,797,685	2,488,142	3	University of Colorado, Boulder	48,332,827	29,047,000	16,797,685	2,488,142
4	University of Maryland, College Park	41,632,482	18,772,000	14,467,995	8,392,487	4	University of Maryland, College Park	41,632,482	18,772,000	14,467,995	8,392,487
5	University of California, Berkeley	25,098,287	5,895,000	17,084,830	2,118,457	5	University of California, Berkeley	25,098,287	5,895,000	17,084,830	2,118,457
6	Utah State University	22,638,920	19,910,000	2,253,579	475,341	6	Utah State University	22,638,920	19,910,000	2,253,579	475,341
7	Massachusetts Institute of Technology	22,598,409	8,756,000	10,534,434	3,307,975	7	Massachusetts Institute of Technology	22,598,409	8,756,000	10,534,434	3,307,975
8	Pennsylvania State University, University Park	20,339,694	10,790,000	7,111,161	2,438,533	8	Pennsylvania State University, University Park	20,339,694	10,790,000	7,111,161	2,438,533
9	University of Maryland, Baltimore County	19,422,924	687,000	4,547,312	14,188,612	9	University of Maryland, Baltimore County	19,422,924	687,000	4,547,312	14,188,612
10	University of Alabama, Huntsville	18,780,899	912,000	3,871,368	13,997,531	10	University of Alabama, Huntsville	18,780,899	912,000	3,871,368	13,997,531
11	University of Arizona	15,722,001	3,310,000	11,790,252	621,749	11	University of Arizona	15,722,001	3,310,000	11,790,252	621,749
12	University of California, Los Angeles	14,211,578	3,916,000	6,780,917	3,514,661	12	University of California, Los Angeles	14,211,578	3,916,000	6,780,917	3,514,661
13	University of Alaska, Fairbanks	13,248,557	11,535,000	1,713,557	0	13	University of Alaska, Fairbanks	13,248,557	11,535,000	1,713,557	0
14	University of Hawaii, Manoa	12,514,251	3,159,000	5,744,903	3,610,348	14	University of Hawaii, Manoa	12,514,251	3,159,000	5,744,903	3,610,348
15	University of Hawaii, Hilo	12,061,991	0	12,061,991	0	15	University of Hawaii, Hilo	12,061,991	0	12,061,991	0
16	University of California, San Diego	12,021,371	4,287,000	6,542,474	1,191,897	16	University of California, San Diego	12,021,371	4,287,000	6,542,474	1,191,897
17	Columbia University	11,751,624	4,329,000	4,128,016	3,294,608	17	Columbia University	11,751,624	4,329,000	4,128,016	3,294,608
18	Georgia Institute of Technology	11,626,196	3,083,000	5,158,700	3,384,496	18	Georgia Institute of Technology	11,626,196	3,083,000	5,158,700	3,384,496
19	University of Florida	11,301,524	127,000	9,728,651	1,445,873	19	University of Florida	11,301,524	127,000	9,728,651	1,445,873
20	Oklahoma State University	11,201,773	0	395,253	10,806,520	20	Oklahoma State University	11,201,773	0	395,253	10,806,520
21	Wheeling Jesuit University	10,931,591	0	631,969	10,299,622	21	Wheeling Jesuit University	10,931,591	0	631,969	10,299,622
22	University of Texas, Austin	10,493,085	4,235,000	6,111,447	146,638	22	University of Texas, Austin	10,493,085	4,235,000	6,111,447	146,638
23	University of Michigan, Ann Arbor	10,318,663	1,366,000	7,713,176	1,239,487	23	University of Michigan, Ann Arbor	10,318,663	1,366,000	7,713,176	1,239,487
24	University of Wisconsin, Madison	9,913,035	2,257,000	5,538,874	2,117,161	24	University of Wisconsin, Madison	9,913,035	2,257,000	5,538,874	2,117,161
25	University of Alabama, Birmingham	8,986,081	2,185,000	516,531	6,284,550	25	University of Alabama, Birmingham	8,986,081	2,185,000	516,531	6,284,550
26	California State University, San Jose	8,868,433	50,000	1,007,772	7,810,661	26	California State University, San Jose	8,868,433	50,000	1,007,772	7,810,661
27	University of Washington, Seattle	8,769,875	949,000	7,088,457	732,418	27	University of Washington, Seattle	8,769,875	949,000	7,088,457	732,418
28	University of New Hampshire, Durham	8,753,025	2,179,000	5,051,434	1,522,591	28	University of New Hampshire, Durham	8,753,025	2,179,000	5,051,434	1,522,591
29	Harvard University	8,273,789	1,029,000	5,506,754	1,738,035	29	Harvard University	8,273,789	1,029,000	5,506,754	1,738,035
30	Texas A&M University, College Station	7,972,857	111,000	2,461,408	5,400,449	30	Texas A&M University, College Station	7,972,857	111,000	2,461,408	5,400,449
31	Princeton University	7,183,145	230,000	4,934,148	2,018,997	31	Princeton University	7,183,145	230,000	4,934,148	2,018,997
32	George Mason University	7,017,972	0	2,066,124	4,951,848	32	George Mason University	7,017,972	0	2,066,124	4,951,848
33	University of Central Florida	7,013,837	0	6,990,837	23,000	33	University of Central Florida	7,013,837	0	6,990,837	23,000
34	Cornell University	6,928,038	1,013,000	5,187,750	727,288	34	Cornell University	6,928,038	1,013,000	5,187,750	727,288
35	University of California, Irvine	6,894,111	3,580,000	2,229,638	1,084,473	35	University of California, Irvine	6,894,111	3,580,000	2,229,638	1,084,473
36	Hampton University	6,767,340	1,352,000	2,073,982	3,341,358	36	Hampton University	6,767,340	1,352,000	2,073,982	3,341,358
37	Purdue University	6,352,556	0	6,248,617	103,939	37	Purdue University	6,352,556	0	6,248,617	103,939
38	University of Miami	6,068,888	3,372,000	2,621,330	75,558	38	University of Missouri, Columbia	6,013,693	0	6,013,693	0
39	University of Missouri, Columbia	6,013,693	0	6,013,693	0	39	University of Illinois, Urbana-Champaign	5,977,500	632,000	4,064,486	1,281,014
40	University of Illinois, Urbana-Champaign	5,977,500	632,000	4,064,486	1,281,014	40	Oregon State University	5,942,648	3,186,000	2,756,648	0
41	Oregon State University	5,942,648	3,186,000	2,756,648	0	41	Old Dominion University	5,870,261	345,000	1,693,033	3,832,228
42	Old Dominion University	5,870,261	345,000	1,693,033	3,832,228	42	University of California, Santa Barbara	5,552,240	1,396,000	3,433,227	723,213
43	University of California, Santa Barbara	5,552,240	1,396,000	3,433,227	723,213	43	University of Iowa	5,496,691	0	4,977,493	519,198
44	University of Iowa	5,496,691	0	4,977,493	519,198	44	University of Mississippi	5,406,236	0	5,406,236	0
45	University of Mississippi	5,406,236	0	5,406,236	0	45	Colorado State University	5,192,068	1,321,000	3,220,005	651,063
46	Colorado State University	5,192,068	1,321,000	3,220,005	651,063	46	Boston University	5,125,908	1,119,000	3,404,696	602,212
47	Boston University	5,125,908	1,119,000	3,404,696	602,212	47	Loma Linda University	5,043,311	0	54,311	4,989,000
48	Loma Linda University	5,043,311	0	54,311	4,989,000	48	University of Idaho	5,035,901	0	4,517,034	518,867
49	University of Idaho	5,035,901	0	4,517,034	518,867	49	University of Montana, Missoula	4,856,211	432,000	4,424,211	0
50	University of Montana, Missoula	4,856,211	432,000	4,424,211	0	50	University of New Mexico	4,853,843	199,000	3,772,276	882,567

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from NASA by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

Table C.15

Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Energy in FY 2002 for Conduct of R&D

Rank	University or College (including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	Massachusetts Institute of Technology	59,969,548	250,000	13,936,365	45,783,183	1	Massachusetts Institute of Technology	59,969,548	250,000	13,936,365	45,783,183
2	University of Rochester	38,913,970	0	4,090,970	34,823,000	2	University of Rochester	38,913,970	0	4,090,970	34,823,000
3	University of Wisconsin, Madison	25,435,488	0	22,990,742	2,444,746	3	University of Wisconsin, Madison	25,435,488	0	22,990,742	2,444,746
4	California State University, Los Angeles	20,150,877	0	14,416,777	5,734,100	4	California State University, Los Angeles	20,150,877	0	14,416,777	5,734,100
5	University of Illinois, Urbana-Champaign	16,361,860	0	15,694,782	667,078	5	University of Illinois, Urbana-Champaign	16,361,860	0	15,694,782	667,078
6	University of Nevada, Las Vegas	15,661,697	0	7,034,400	8,627,297	6	University of Nevada, Las Vegas	15,661,697	0	7,034,400	8,627,297
7	University of Georgia	15,613,806	0	4,088,274	11,525,532	7	University of Georgia	15,613,806	0	4,088,274	11,525,532
8	University of Texas, Austin	15,547,726	485,000	9,882,953	5,179,773	8	University of Texas, Austin	15,547,726	485,000	9,882,953	5,179,773
9	Stanford University	14,842,566	474,000	7,492,485	6,876,081	9	Stanford University	14,842,566	474,000	7,492,485	6,876,081
10	California Institute of Technology	14,659,836	0	13,720,304	939,532	10	California Institute of Technology	14,659,836	0	13,720,304	939,532
11	University of Washington, Seattle	14,207,754	0	13,651,586	556,168	11	University of Washington, Seattle	14,207,754	0	13,651,586	556,168
12	University of California, Davis	13,942,364	0	5,130,364	8,812,000	12	University of California, Davis	13,942,364	0	5,130,364	8,812,000
13	University of Michigan, Ann Arbor	12,418,490	0	11,285,012	1,133,478	13	University of Michigan, Ann Arbor	12,418,490	0	11,285,012	1,133,478
14	West Virginia University	12,032,304	121,000	7,803,429	4,107,875	14	West Virginia University	12,032,304	121,000	7,803,429	4,107,875
15	University of California, San Diego	11,735,021	0	10,008,213	1,726,808	15	University of California, San Diego	11,735,021	0	10,008,213	1,726,808
16	Pennsylvania State University, University Park ^c	11,086,033	0	7,484,447	3,619,586	16	Pennsylvania State University, University Park ^c	11,086,033	0	7,484,447	3,619,586
17	Harvard University	10,638,459	0	6,168,667	4,469,792	17	Harvard University	10,638,459	0	6,168,667	4,469,792
18	Yale University	10,105,139	0	10,105,139	0	18	Yale University	10,105,139	0	10,105,139	0
19	Columbia University	9,999,769	0	9,653,756	346,013	19	Columbia University	9,999,769	0	9,653,756	346,013
20	University of Minnesota, Twin Cities	9,778,987	0	8,932,425	846,562	20	University of Minnesota, Twin Cities	9,778,987	0	8,932,425	846,562
21	Texas A&M University, College Station	9,642,186	0	8,037,577	1,604,609	21	Texas A&M University, College Station	9,642,186	0	8,037,577	1,604,609
22	University of Maryland, College Park	8,851,936	0	8,851,936	0	22	University of Maryland, College Park	8,851,936	0	8,851,936	0
23	University of South Alabama	8,380,000	0	8,380,000	0	23	University of South Alabama	8,380,000	0	8,380,000	0
24	Michigan State University	8,328,608	0	8,168,608	160,000	24	Michigan State University	8,328,608	0	8,168,608	160,000
25	Duke University	8,186,700	0	8,186,700	0	25	University of Notre Dame	8,156,772	3,670,000	4,486,772	0
26	University of Notre Dame	8,156,772	3,670,000	4,486,772	0	26	Princeton University	8,090,942	0	7,630,825	460,117
27	Princeton University	8,090,942	0	7,630,825	460,117	27	Ohio State University, Columbus (includes AES at Wooster)	7,969,864	0	6,772,825	1,197,039
28	Ohio State University, Columbus (includes AES at Wooster)	7,969,864	0	6,772,825	1,197,039	28	University of Florida	7,747,133	111,000	7,406,233	229,900
29	University of Florida	7,747,133	111,000	7,406,233	229,900	29	Washington State University, Pullman	7,443,920	0	7,244,458	199,462
30	Medical University of South Carolina	7,447,885	0	1,447,885	6,000,000	30	Duke University	7,337,992	0	7,337,992	0
31	Washington State University, Pullman	7,443,920	0	7,244,458	199,462	31	Florida International University	7,069,282	0	7,069,282	0
32	Florida International University	7,069,282	0	7,069,282	0	32	Purdue University	6,856,952	0	6,681,952	175,000
33	University of Utah	6,880,953	318,000	4,258,387	2,304,566	33	Carnegie Mellon University	6,824,968	265,000	3,673,174	2,886,794
34	Purdue University	6,856,952	0	6,681,952	175,000	34	University of Pennsylvania	6,807,287	0	6,807,287	0
35	Carnegie Mellon University	6,824,968	265,000	3,673,174	2,886,794	35	University of Utah	6,796,953	234,000	4,258,387	2,304,566
36	University of Pennsylvania	6,807,287	0	6,807,287	0	36	University of Nevada, Reno	6,786,570	4,740,000	1,906,418	140,152
37	University of Nevada, Reno	6,786,570	4,740,000	1,906,418	140,152	37	University of Alabama, Birmingham	6,777,102	0	2,497,928	4,279,174
38	University of Alabama, Birmingham	6,777,102	0	2,497,928	4,279,174	38	Florida State University	6,770,339	0	2,555,339	4,215,000
39	Florida State University	6,770,339	0	2,555,339	4,215,000	39	University of Massachusetts, Amherst	6,751,929	0	6,457,572	294,357
40	University of Massachusetts, Amherst	6,751,929	0	6,457,572	294,357	40	Kansas State University	6,553,853	0	1,052,895	5,503,958
41	Mississippi State University ^d	6,553,853	0	1,052,895	5,503,958	41	Virginia Polytechnic Institute and State University	6,236,987	442,000	1,886,236	3,908,751
42	Virginia Polytechnic Institute and State University	6,236,987	442,000	1,886,236	3,908,751	42	University of Colorado, Boulder	6,212,577	0	5,831,577	381,000
43	University of Colorado, Boulder	6,212,577	0	5,831,577	381,000	43	Cornell University	6,193,602	0	6,165,602	28,000
44	Cornell University	6,193,602	0	6,165,602	28,000	44	University of California, Irvine	5,969,388	0	5,370,786	598,602
45	University of California, Irvine	5,969,388	0	5,370,786	598,602	45	Kansas State University	5,929,505	0	4,921,505	1,008,000
46	Kansas State University	5,929,505	0	4,921,505	1,008,000	46	University of North Dakota	5,918,140	0	96,940	5,821,200
47	University of North Dakota	5,918,140	0	96,940	5,821,200	47	University of Tennessee, Knoxville	5,485,984	0	4,080,441	1,405,543
48	University of Tennessee, Knoxville	5,485,984	0	4,080,441	1,405,543	48	Northwestern University	5,289,729	0	5,139,729	150,000
49	Northwestern University	5,339,210	0	5,189,210	150,000	49	University of California, Santa Barbara	5,143,433	0	4,365,991	777,442
50	University of California, Santa Barbara	5,143,433	0	4,365,991	777,442	50	University of California, Berkeley	5,056,022	0	4,856,654	199,368

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from DOE by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

^c Actual amount for Contracts is a "de-obligation" of \$18,000, which is reflected in the total.

^d Actual amount for Contracts is a "de-obligation" of \$3,000, which is reflected in the total.

Table C.16

Top 50 Universities and Colleges, Including and Excluding Medical Schools, Provided Funds by Department of Agriculture in FY 2002 for Conduct of R&D

Rank	University or College (including Medical Schools) ^a	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b	Rank	University or College (Excluding Medical School)	Total	Amount Received as Contracts	Amount Received as Project Grants	Amount Received in Other Ways ^b
1	Iowa State University	18,908,907	0	12,449,533	6,459,374	1	Iowa State University	18,908,907	0	12,449,533	6,459,374
2	Michigan State University	17,199,944	0	11,774,890	5,425,054	2	Michigan State University	17,199,944	0	11,774,890	5,425,054
3	Cornell University	15,857,204	0	9,991,493	5,865,711	3	Cornell University	15,857,204	0	9,991,493	5,865,711
4	Pennsylvania State University, University Park	15,670,442	0	8,978,375	6,692,067	4	Pennsylvania State University, University Park	15,670,442	0	8,978,375	6,692,067
5	Texas A&M University, College Station	15,659,506	0	8,408,129	7,251,377	5	Texas A&M University, College Station	15,659,506	0	8,408,129	7,251,377
6	University of Georgia	15,070,709	0	5,532,056	9,538,653	6	University of Georgia	15,070,709	0	5,532,056	9,538,653
7	North Carolina State University	14,831,037	0	6,031,975	8,799,062	7	North Carolina State University	14,831,037	0	6,031,975	8,799,062
8	University of Minnesota, Twin Cities	14,120,068	0	8,141,688	5,978,380	8	University of Minnesota, Twin Cities	14,120,068	0	8,141,688	5,978,380
9	University of Wisconsin, Madison	13,860,128	0	7,486,326	6,373,802	9	University of Wisconsin, Madison	13,860,128	0	7,486,326	6,373,802
10	Wooster)	13,052,406	0	6,855,538	6,196,868	10	Wooster)	13,052,406	0	6,855,538	6,196,868
11	University of Florida	12,709,496	0	8,644,442	4,065,054	11	University of Florida	12,709,496	0	8,644,442	4,065,054
12	University of California, Davis	12,478,066	0	11,538,318	939,748	12	University of California, Davis	12,478,066	0	11,538,318	939,748
13	University of Illinois, Urbana-Champaign	11,658,821	0	5,860,235	5,798,586	13	University of Illinois, Urbana-Champaign	11,658,821	0	5,860,235	5,798,586
14	Mississippi State University	11,091,656	0	6,389,329	4,702,327	14	Mississippi State University	11,091,656	0	6,389,329	4,702,327
15	University of California, Berkeley	11,030,821	0	4,812,675	6,218,146	15	University of California, Berkeley	11,030,821	0	4,812,675	6,218,146
16	University of Nebraska, Lincoln	10,657,214	0	4,347,211	6,310,003	16	University of Nebraska, Lincoln	10,657,214	0	4,347,211	6,310,003
17	Washington State University, Pullman	10,412,478	0	6,463,416	3,949,062	17	Washington State University, Pullman	10,412,478	0	6,463,416	3,949,062
18	North Dakota State University	10,185,102	0	7,681,995	2,503,107	18	North Dakota State University	10,185,102	0	7,681,995	2,503,107
19	Virginia Polytechnic Institute and State University	9,815,496	0	4,682,570	5,132,926	19	Virginia Polytechnic Institute and State University	9,815,496	0	4,682,570	5,132,926
20	University of Missouri, Columbia	9,671,468	0	4,255,721	5,415,747	20	University of Missouri, Columbia	9,671,468	0	4,255,721	5,415,747
21	Purdue University	9,485,863	0	3,368,272	6,117,591	21	Purdue University	9,485,863	0	3,368,272	6,117,591
22	Oregon State University	9,317,797	0	5,668,753	3,649,044	22	Oregon State University	9,317,797	0	5,668,753	3,649,044
23	Auburn University	9,196,982	0	4,111,936	5,085,046	23	Auburn University	9,196,982	0	4,111,936	5,085,046
24	University of Kentucky	8,567,051	0	2,826,436	5,740,615	24	University of Kentucky	8,567,051	0	2,826,436	5,740,615
25	Colorado State University	8,275,954	93,000	3,949,010	4,233,944	25	Colorado State University	8,275,954	93,000	3,949,010	4,233,944
26	University of Arkansas, Fayetteville	8,041,203	0	4,061,767	3,979,436	26	University of Arkansas, Fayetteville	8,041,203	0	4,061,767	3,979,436
27	Rutgers University, New Brunswick	7,960,432	0	5,020,655	2,939,777	27	Rutgers University, New Brunswick	7,960,432	0	5,020,655	2,939,777
28	Kansas State University	7,772,644	0	4,135,980	3,636,664	28	Kansas State University	7,772,644	0	4,135,980	3,636,664
29	Louisiana State University, Baton Rouge	7,665,949	0	4,097,293	3,568,656	29	Louisiana State University, Baton Rouge	7,665,949	0	4,097,293	3,568,656
30	Utah State University	7,305,270	0	2,561,721	4,743,549	30	Utah State University	7,305,270	0	2,561,721	4,743,549
31	University of Tennessee, Knoxville	7,211,882	0	1,704,391	5,507,491	31	University of Tennessee, Knoxville	7,211,882	0	1,704,391	5,507,491
32	Montana State University, Bozeman	7,160,003	0	5,039,048	2,120,955	32	Montana State University, Bozeman	7,160,003	0	5,039,048	2,120,955
33	University of Maryland, College Park	6,780,244	0	3,173,582	3,606,662	33	University of Maryland, College Park	6,780,244	0	3,173,582	3,606,662
34	Oklahoma State University	6,648,847	0	3,065,740	3,583,107	34	Oklahoma State University	6,648,847	0	3,065,740	3,583,107
35	Clemson University	6,393,906	0	1,641,366	4,752,540	35	Clemson University	6,393,906	0	1,641,366	4,752,540
36	University of Idaho	5,829,748	0	3,289,535	2,540,213	36	University of Idaho	5,829,748	0	3,289,535	2,540,213
37	University of Arizona	5,802,151	0	3,667,039	2,135,112	37	University of Arizona	5,802,151	0	3,667,039	2,135,112
38	University of Vermont	5,589,711	0	1,040,015	4,549,696	38	University of Vermont	5,589,711	0	1,040,015	4,549,696
39	South Dakota State University	5,322,500	0	2,759,004	2,563,496	39	South Dakota State University	5,322,500	0	2,759,004	2,563,496
40	West Virginia University	5,269,720	0	2,299,611	2,970,109	40	West Virginia University	5,269,720	0	2,299,611	2,970,109
41	University of Massachusetts, Amherst	5,065,330	0	2,492,211	2,573,119	41	University of Massachusetts, Amherst	5,065,330	0	2,492,211	2,573,119
42	University of Hawaii, Manoa	4,939,397	0	3,436,583	1,502,814	42	University of Hawaii, Manoa	4,939,397	0	3,436,583	1,502,814
43	University of Connecticut	4,530,584	0	2,505,496	2,025,088	43	University of Connecticut	4,530,584	0	2,505,496	2,025,088
44	University of Alaska, Fairbanks	4,441,201	0	3,027,767	1,413,434	44	University of Alaska, Fairbanks	4,441,201	0	3,027,767	1,413,434
45	University of Puerto Rico, Rio Piedras	4,396,605	0	417,808	3,978,797	45	University of Puerto Rico, Rio Piedras	4,396,605	0	417,808	3,978,797
46	University of California, Riverside	4,143,399	0	3,311,620	831,779	46	University of California, Riverside	4,143,399	0	3,311,620	831,779
47	Texas A&M University, Prairie View A&M	3,964,723	0	235,798	3,728,925	47	Texas A&M University, Prairie View A&M	3,964,723	0	235,798	3,728,925
48	New Mexico State University, Las Cruces	3,882,514	0	1,994,498	1,888,016	48	New Mexico State University, Las Cruces	3,882,514	0	1,994,498	1,888,016
49	University of Maine, Bangor	3,845,663	0	1,509,711	2,335,952	49	University of Maine, Bangor	3,845,663	0	1,509,711	2,335,952
50	North Carolina Agricultural & Technical State University	3,711,495	0	3,711,495	0	50	North Carolina Agricultural & Technical State University	3,711,495	0	0	3,711,495

^a Where a medical school was located in the same city as a sister campus of the same institution, the R&D funding received from USDA by both has been combined.

^b Includes cooperative agreements (not CRADAs) and/or formula grants.

Table C.17

**Top 50 Public and Private Universities and Colleges, Including Medical Schools,
Provided Federal Funds in FY 2002 for Conduct of R&D**

Public Universities and Colleges			Private Universities and Colleges		
Average of All Such Institutions Receiving Federal R&D Funds		30,161,059	Average of All Such Institutions Receiving Federal R&D Funds		22,698,458
Average of All Such Institutions		20,593,058	Average of All Such Institutions		7,154,949
		Total Federal R&D Funds Received			Total Federal R&D Funds Received
Rank	University or College		Rank	University or College	
1	University of Washington, Seattle	518,105,691	1	Johns Hopkins University	968,346,779
2	University of Michigan, Ann Arbor	428,841,708	2	University of Pennsylvania	458,468,017
3	University of California, Los Angeles	412,554,554	3	Stanford University	386,003,275
4	University of California, San Diego	405,563,825	4	Massachusetts Institute of Technology	380,832,879
5	University of Wisconsin, Madison	364,986,252	5	Washington University, St Louis	360,440,828
6	University of California, San Francisco	356,743,364	6	Columbia University	334,901,399
7	University of Pittsburgh	336,901,314	7	Harvard University	332,530,435
8	University of Minnesota, Twin Cities	309,877,336	8	Duke University	327,315,626
9	University of North Carolina, Chapel Hill	307,967,854	9	Yale University	312,309,557
10	University of Alabama, Birmingham	260,792,305	10	Baylor College of Medicine	273,931,037
11	University of California, Berkeley	223,779,543	11	Cornell University ^a	258,544,760
12	Pennsylvania State University, University Park	221,313,180	12	University of Southern California	223,851,269
13	University of Illinois, Urbana-Champaign	206,263,136	13	Vanderbilt University	223,742,350
14	University of California, Davis	189,264,822	14	Case Western Reserve University	195,106,497
15	University of Arizona	184,787,624	15	University of Rochester	189,376,514
16	University of Iowa	176,503,090	16	Emory University	189,186,474
17	Ohio State University, Columbus (includes AES at Wooster)	173,332,020	17	Boston University	175,652,126
18	University of Colorado System Health Sciences Center	171,217,091	18	University of Chicago	172,475,309
19	University of Virginia, Charlottesville	167,559,784	19	Northwestern University	161,234,045
20	Oregon Health & Science University	166,774,546	20	Mount Sinai School of Medicine	150,446,538
21	University of Florida	165,041,811	21	Mayo Medical School	148,057,109
22	University of Texas, Southwestern Medical Center at Dallas	162,647,874	22	New York University	143,198,057
23	University of Colorado, Boulder	156,690,828	23	Yeshiva University	138,929,910
24	University of Utah	154,795,096	24	University of Miami	119,676,758
25	University of Illinois, Chicago	142,885,797	25	Wake Forest University	109,377,419
26	University of Texas, Austin	140,822,610	26	Dartmouth College	95,271,548
27	University of Texas, MD Anderson Cancer Center	137,474,907	27	Georgetown University	83,320,760
28	University of California, Irvine	135,703,283	28	George Washington University (includes Mount Vernon campus)	82,962,959
29	University of Maryland, College Park	134,507,747	29	Medical College of Wisconsin	81,926,851
30	University of Maryland, Baltimore	128,207,993	30	Carnegie Mellon University	81,445,898
31	University of Hawaii, Manoa	120,815,130	31	Thomas Jefferson University	80,137,024
32	University of Cincinnati	109,719,032	32	Princeton University	79,803,995
33	Georgia Institute of Technology	106,881,077	33	Brown University	75,200,770
34	University of Medicine & Dentistry of New Jersey	106,805,489	34	Rockefeller University	69,404,849
35	Rutgers University, New Brunswick	106,544,770	35	California Institute of Technology	63,951,569
36	University of Kentucky	105,092,273	36	Tulane University	59,745,952
37	Wayne State University	102,689,881	37	Tufts University	56,197,903
38	University of Texas, Health Science Center at Houston	101,688,198	38	Rush University Medical College	46,929,666
39	Michigan State University	100,967,246	39	Saint Louis University	46,294,682
40	University of Connecticut	96,507,764	40	Howard University	39,489,251
41	Indiana University - Purdue University at Indianapolis	95,879,375	41	Meharry Medical College	39,293,507
42	Texas A&M University, College Station	94,889,514	42	Morehouse College	36,374,771
43	Purdue University	92,739,428	43	University of Notre Dame	35,384,037
44	Medical University of South Carolina	92,117,028	44	Drexel University	28,915,312
45	University of Massachusetts, Medical School at Worcester	91,766,651	45	Illinois Institute of Technology	27,563,805
46	University of Georgia	90,673,538	46	Brandeis University	27,493,664
47	University of New Mexico	88,509,905	47	Tuskegee University	26,255,994
48	State University of New York, Stony Brook	87,644,268	48	Loyola University, Chicago	26,043,383
49	University of Texas, Health Science Center at San Antonio	81,405,984	49	Rice University	25,158,055
50	University of Texas, Medical Branch-Galveston	80,894,637	50	Loma Linda University	24,921,737

^a Cornell University has the unique status of being both a federal land-grant institution in part and a privately endowed institution in part. For example, Cornell's Colleges of Veterinary Medicine, Agriculture and Life Sciences, and Human Ecology, as well as its School of Industrial and Labor Relations are land-grant units within Cornell University. In contrast, the Colleges of Arts and Science; Engineering; Architecture, Art, and Planning; and Medicine; and the Schools of Hotel Administration, Management, Law, and Medical Sciences are privately endowed units within Cornell University. To avoid breaking Cornell University into two parts for this study, Cornell University has been categorized as a "private" institution and a "land-grant" institution.

Table C.18

**Top 50 Public and Private Universities and Colleges, Excluding Medical Schools,
Provided Federal Funds in FY 2002 for Conduct of R&D**

Public Universities and Colleges			Private Universities and Colleges		
Average of All Such Institutions Receiving Federal R&D Funds		19,095,746	Average of All Such Institutions Receiving Federal R&D Funds		10,091,287
Average of All Such Institutions		12,884,247	Average of All Such Institutions		3,121,886
		Total Federal R&D Funds Received			Total Federal R&D Funds Received
Rank	University or College		Rank	University or College	
1	University of Washington, Seattle	267,170,274	1	Johns Hopkins University	603,852,921
2	University of Wisconsin, Madison	252,542,298	2	Massachusetts Institute of Technology	380,832,879
3	University of California, Berkeley	223,779,543	3	Harvard University	192,739,471
4	University of California, San Diego	223,136,224	4	Stanford University	178,020,188
5	Pennsylvania State University, University Park	221,313,180	5	Cornell University ^a	148,985,584
6	University of Michigan, Ann Arbor	215,671,996	6	Columbia University	128,680,046
7	University of Illinois, Urbana-Champaign	206,263,136	7	University of Pennsylvania	118,325,960
8	University of Minnesota, Twin Cities	193,278,629	8	University of Southern California	116,338,283
9	University of California, Los Angeles	192,972,655	9	Carnegie Mellon University	81,445,898
10	University of Colorado, Boulder	156,690,828	10	Duke University	80,581,034
11	University of Texas, Austin	140,822,610	11	Princeton University	79,803,995
12	University of North Carolina, Chapel Hill	139,203,963	12	Boston University	77,713,293
13	University of Texas, MD Anderson Cancer Center	137,474,907	13	Rockefeller University	69,404,849
14	University of Maryland, College Park	134,507,747	14	Northwestern University	68,818,288
15	University of California, Davis	128,490,293	15	University of Rochester	68,588,807
16	University of Pittsburgh	119,780,447	16	Yale University	66,572,770
17	University of Arizona	119,223,966	17	George Washington University (includes Mount Vernon campus)	66,468,174
18	University of Hawaii, Manoa	110,396,337	18	California Institute of Technology	63,951,569
19	Ohio State University, Columbus (includes AES at Wooster)	109,670,240	19	Vanderbilt University	51,056,585
20	Georgia Institute of Technology	106,881,077	20	Case Western Reserve University	48,885,200
21	Rutgers University, New Brunswick	106,544,770	21	Emory University	48,692,373
22	University of Florida	102,406,730	22	University of Chicago	47,528,773
23	University of Alabama, Birmingham	101,215,410	23	Washington University, St Louis	44,646,153
24	Texas A&M University, College Station	94,889,514	24	University of Miami	41,160,753
25	Michigan State University	93,631,243	25	Brown University	39,950,693
26	Purdue University	92,739,428	26	New York University	36,480,498
27	University of Georgia	90,673,538	27	University of Notre Dame	35,384,037
28	University of California, Irvine	81,278,674	28	Tulane University	35,312,558
29	Colorado State University	78,080,076	29	Dartmouth College	34,497,037
30	University of Illinois, Chicago	77,948,842	30	Georgetown University	34,083,874
31	University of California, Santa Barbara	71,720,775	31	Illinois Institute of Technology	27,563,805
32	University of California, San Francisco	71,311,258	32	Brandeis University	27,493,664
33	Oregon State University	69,895,307	33	Tuskegee University	26,255,994
34	North Carolina State University	63,026,231	34	Rice University	25,158,055
35	University of Utah	60,458,472	35	Northeastern University	23,916,696
36	Iowa State University	60,424,044	36	Saint Louis University	23,516,797
37	Arizona State University, Tempe	56,955,731	37	Howard University	23,484,709
38	Indiana University, Bloomington	56,276,073	38	University of Dayton	23,418,238
39	University of Iowa	56,164,787	39	Auburn University	22,697,275
40	University of Massachusetts, Amherst	55,792,193	40	Meharry Medical College	17,312,324
41	Virginia Polytechnic Institute and State University	55,767,661	41	Boston College	16,079,933
42	University of Missouri, Columbia	55,659,036	42	Xavier University of Louisiana	14,555,679
43	University of New Mexico	54,239,722	43	Wheeling Jesuit University	14,531,591
44	University of Virginia, Charlottesville	53,704,384	44	Lehigh University	13,862,300
45	State University of New York, Stony Brook	53,487,674	45	Syracuse University	13,843,951
46	Utah State University	52,797,411	46	Drexel University	13,305,272
47	University of Alaska, Fairbanks	52,390,100	47	Tufts University	13,295,056
48	University of Nebraska, Lincoln	51,786,237	48	Rensselaer Polytechnic Institute	12,713,519
49	University of Kentucky	51,105,784	49	Loma Linda University	11,721,232
50	University of Tennessee, Knoxville	50,970,117	50	Hampton University	10,128,090

^a Cornell University has the unique status of being both a federal land-grant institution in part and a privately endowed institution in part. For example, Cornell's Colleges of Veterinary Medicine, Agriculture and Life Sciences, and Human Ecology, as well as its School of Industrial and Labor Relations are land-grant units within Cornell University. In contrast, the Colleges of Arts and Science; Engineering; Architecture, Art, and Planning; and Medicine; and the Schools of Hotel Administration, Management, Law, and Medical Sciences are privately endowed units within Cornell University. To avoid breaking Cornell University into two parts for this study, Cornell University has been categorized as a "private" institution and a "land-grant" institution.

Table C.19

Top 50 Land-Grant and Non-Land-Grant Universities and Colleges, Including Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Land-Grant Universities and Colleges			Non-Land-Grant Universities and Colleges		
Average of All Such Institutions Receiving Federal R&D Funds		68,385,699	Average of All Such Institutions Receiving Federal R&D Funds		22,250,839
Average of All Such Institutions		66,586,075	Average of All Such Institutions		9,282,792
Rank	University or College	Total Federal R&D Funds Received	Rank	University or College	Total Federal R&D Funds Received
1	University of Wisconsin, Madison	364,986,252	1	Johns Hopkins University	968,346,779
2	Yale University	312,309,557	2	University of Washington, Seattle	518,105,691
3	University of Minnesota, Twin Cities	309,877,336	3	University of Pennsylvania	458,468,017
4	Cornell University ^a	258,544,760	4	University of Michigan, Ann Arbor	428,841,708
5	University of California, Berkeley	223,779,543	5	University of California, Los Angeles	412,554,554
6	Pennsylvania State University, University Park	221,313,180	6	University of California, San Diego	405,563,825
7	University of Illinois, Urbana-Champaign	206,263,136	7	Stanford University	386,003,275
8	University of California, Davis	189,264,822	8	Massachusetts Institute of Technology	380,832,879
9	University of Arizona	184,787,624	9	Washington University, St Louis	360,440,828
10	Ohio State University, Columbus (includes AES at Wooster)	173,332,020	10	University of California, San Francisco	356,743,364
11	University of Florida	165,041,811	11	University of Pittsburgh	336,901,314
12	University of Maryland, College Park	134,507,747	12	Columbia University	334,901,399
13	University of Hawaii, Manoa	120,815,130	13	Harvard University	332,530,435
14	Rutgers University, New Brunswick	106,544,770	14	Duke University	327,315,626
15	University of Kentucky	105,092,273	15	University of North Carolina, Chapel Hill	307,967,854
16	Michigan State University	100,967,246	16	Baylor College of Medicine	273,931,037
17	University of Connecticut	96,507,764	17	University of Alabama, Birmingham	260,792,305
18	Texas A&M University, College Station	94,889,514	18	University of Southern California	223,851,269
19	Purdue University	92,739,428	19	Vanderbilt University	223,742,350
20	University of Georgia	90,673,538	20	Case Western Reserve University	195,106,497
21	Colorado State University	78,080,076	21	University of Rochester	189,376,514
22	University of Vermont	71,957,411	22	Emory University	189,186,474
23	Oregon State University	69,895,307	23	University of Iowa	176,503,090
24	University of Missouri, Columbia	67,457,235	24	Boston University	175,652,126
25	North Carolina State University	63,026,231	25	University of Chicago	172,475,309
26	Iowa State University	60,424,044	26	University of Colorado System Health Sciences Center	171,217,091
27	University of Massachusetts, Amherst	55,792,193	27	University of Virginia, Charlottesville	167,559,784
28	Virginia Polytechnic Institute and State University	55,767,661	28	Oregon Health & Science University	166,774,546
29	Utah State University	52,797,411	29	University of Texas, Southwestern Medical Center at Dallas	162,647,874
30	University of Alaska, Fairbanks	52,390,100	30	Northwestern University	161,234,045
31	University of Nebraska, Lincoln	51,786,237	31	University of Colorado, Boulder	156,690,828
32	University of Tennessee, Knoxville	50,970,117	32	University of Utah	154,795,096
33	Washington State University, Pullman	50,038,009	33	Mount Sinai School of Medicine	150,446,538
34	University of Delaware	46,179,667	34	Mayo Medical School	148,057,109
35	Louisiana State University, Baton Rouge	44,981,609	35	New York University	143,198,057
36	West Virginia University	43,677,607	36	University of Illinois, Chicago	142,885,797
37	Mississippi State University	43,634,342	37	University of Texas, Austin	140,822,610
38	University of New Hampshire, Durham	37,850,530	38	Yeshiva University	138,929,910
39	University of California, Riverside	34,486,910	39	University of Texas, MD Anderson Cancer Center	137,474,907
40	Montana State University, Bozeman	33,337,405	40	University of California, Irvine	135,703,283
41	Oklahoma State University	31,114,036	41	University of Maryland, Baltimore	128,207,993
42	University of Nevada, Reno	29,432,737	42	University of Miami	119,676,758
43	Kansas State University	29,309,846	43	University of Cincinnati	109,719,032
44	University of Idaho	29,150,447	44	Wake Forest University	109,377,419
45	New Mexico State University, Las Cruces	27,835,004	45	Georgia Institute of Technology	106,881,077
46	Clemson University	27,271,470	46	University of Medicine & Dentistry of New Jersey	106,805,489
47	University of Rhode Island	26,681,467	47	Wayne State University	102,689,881
48	Tuskegee University	26,255,994	48	University of Texas, Health Science Center at Houston	101,688,198
49	Auburn University	22,697,275	49	Indiana University—Purdue University at Indianapolis	95,879,375
50	University of Arkansas, Fayetteville	20,643,923	50	Dartmouth College	95,271,548

^a Cornell University has the unique status of being both a federal land-grant institution in part and a privately endowed institution in part. For example, Cornell's Colleges of Veterinary Medicine, Agriculture and Life Sciences, and Human Ecology, as well as its School of Industrial and Labor Relations are land-grant units within Cornell University. In contrast, the Colleges of Arts and Science; Engineering; Architecture, Art, and Planning; and Medicine; and the Schools of Hotel Administration, Management, Law, and Medical Sciences are privately endowed units within Cornell University. To avoid breaking Cornell University into two parts for this study, Cornell University has been categorized as a "private" institution and a "land-grant" institution.

Table C.20

Top 50 Land-Grant and Non-Land-Grant Universities and Colleges, Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Land-Grant Universities and Colleges			Non-Land-Grant Universities and Colleges		
Average of All Such Institutions Receiving Federal R&D Funds		54,343,597	Average of All Such Institutions Receiving Federal R&D Funds		10,732,686
Average of All Such Institutions		52,913,502	Average of All Such Institutions		4,404,249
Rank	University or College	Total Federal R&D Funds Received	Rank	University or College	Total Federal R&D Funds Received
1	University of Wisconsin, Madison	252,542,298	1	Johns Hopkins University	603,852,921
2	University of California, Berkeley	223,779,543	2	Massachusetts Institute of Technology	380,832,879
3	Pennsylvania State University, University Park	221,313,180	3	University of Washington, Seattle	267,170,274
4	University of Illinois, Urbana-Champaign	206,263,136	4	University of California, San Diego	223,136,224
5	University of Minnesota, Twin Cities	193,278,629	5	University of Michigan, Ann Arbor	215,671,996
6	Cornell University ^a	148,985,584	6	University of California, Los Angeles	192,972,655
7	University of Maryland, College Park	134,507,747	7	Harvard University	192,739,471
8	University of California, Davis	128,490,293	8	Stanford University	178,020,188
9	University of Arizona	119,223,966	9	University of Colorado, Boulder	156,690,828
10	University of Hawaii, Manoa	110,396,337	10	University of Texas, Austin	140,822,610
11	Ohio State University, Columbus (includes AES at Wooster)	109,670,240	11	University of North Carolina, Chapel Hill	139,203,963
12	Rutgers University, New Brunswick	106,544,770	12	University of Texas, MD Anderson Cancer Center	137,474,907
13	University of Florida	102,406,730	13	Columbia University	128,680,046
14	Texas A&M University, College Station	94,889,514	14	University of Pittsburgh	119,780,447
15	Michigan State University	93,631,243	15	University of Pennsylvania	118,325,960
16	Purdue University	92,739,428	16	University of Southern California	116,338,283
17	University of Georgia	90,673,538	17	Georgia Institute of Technology	106,881,077
18	Colorado State University	78,080,076	18	University of Alabama, Birmingham	101,215,410
19	Oregon State University	69,895,307	19	Carnegie Mellon University	81,445,898
20	Yale University	66,572,770	20	University of California, Irvine	81,278,674
21	North Carolina State University	63,026,231	21	Duke University	80,581,034
22	Iowa State University	60,424,044	22	Princeton University	79,803,995
23	University of Massachusetts, Amherst	55,792,193	23	University of Illinois, Chicago	77,948,842
24	Virginia Polytechnic Institute and State University	55,767,661	24	Boston University	77,713,293
25	University of Missouri, Columbia	55,659,036	25	University of California, Santa Barbara	71,720,775
26	Utah State University	52,797,411	26	University of California, San Francisco	71,311,258
27	University of Alaska, Fairbanks	52,390,100	27	Rockefeller University	69,404,849
28	University of Nebraska, Lincoln	51,786,237	28	Northwestern University	68,818,288
29	University of Kentucky	51,105,784	29	University of Rochester	68,588,807
30	University of Tennessee, Knoxville	50,970,117	30	George Washington University (includes Mount Vernon campus)	66,468,174
31	Washington State University, Pullman	50,038,009	31	California Institute of Technology	63,951,569
32	University of Delaware	46,179,667	32	University of Utah	60,458,472
33	Louisiana State University, Baton Rouge	44,981,609	33	Arizona State University, Tempe	56,955,731
34	University of Connecticut	43,700,268	34	Indiana University, Bloomington	56,276,073
35	Mississippi State University	43,634,342	35	University of Iowa	56,164,787
36	University of New Hampshire, Durham	37,850,530	36	University of New Mexico	54,239,722
37	University of California, Riverside	34,486,910	37	University of Virginia, Charlottesville	53,704,384
38	Montana State University, Bozeman	33,337,405	38	State University of New York, Stony Brook	53,487,674
39	West Virginia University	33,031,420	39	Vanderbilt University	51,056,585
40	Oklahoma State University	31,114,036	40	State University of New York, Buffalo	49,863,830
41	University of Nevada, Reno	29,432,737	41	Case Western Reserve University	48,885,200
42	Kansas State University	29,309,846	42	Emory University	48,692,373
43	University of Idaho	29,150,447	43	Oregon Health & Science University	48,631,772
44	New Mexico State University, Las Cruces	27,835,004	44	University of Chicago	47,528,773
45	Clemson University	27,271,470	45	Wayne State University	46,677,305
46	University of Rhode Island	26,681,467	46	University of Kansas, Lawrence	45,758,948
47	Tuskegee University	26,255,994	47	Washington University, St Louis	44,646,153
48	Auburn University	22,697,275	48	University of South Florida, Tampa	43,336,370
49	University of Arkansas, Fayetteville	20,643,923	49	University of Miami	41,160,753
50	University of Montana, Missoula	20,613,525	50	Brown University	39,950,693

^a Cornell University has the unique status of being both a federal land-grant institution in part and a privately endowed institution in part. For example, Cornell's Colleges of Veterinary Medicine, Agriculture and Life Sciences, and Human Ecology, as well as its School of Industrial and Labor Relations are land-grant units within Cornell University. In contrast, the Colleges of Arts and Science; Engineering; Architecture, Art, and Planning; and Medicine; and the Schools of Hotel Administration, Management, Law, and Medical Sciences are privately endowed units within Cornell University. To avoid breaking Cornell University into two parts for this study, Cornell University has been categorized as a "private" institution and a "land-grant" institution.

Table C.21

Top 50 Historically Black Colleges and Universities and Non-Historically Black Colleges and Universities, Including Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Historically Black Colleges and Universities			Non-Historically Black Colleges and Universities		
Average of All Such Institutions Receiving Federal R&D Funds		5,200,875	Average of All Such Institutions Receiving Federal R&D Funds		28,320,186
Average of All Such Institutions		3,596,350	Average of All Such Institutions		12,083,713
Rank	University or College	Total Federal R&D Funds Received	Rank	University or College	Total Federal R&D Funds Received
1	Howard University	39,489,251	1	Johns Hopkins University	968,346,779
2	Meharry Medical College	39,293,507	2	University of Washington, Seattle	518,105,691
3	Morehouse College	36,374,771	3	University of Pennsylvania	458,468,017
4	Tuskegee University	26,255,994	4	University of Michigan, Ann Arbor	428,841,708
5	Charles R. Drew University of Medicine and Science	19,990,406	5	University of California, Los Angeles	412,554,554
6	Florida Agricultural & Mechanical University	17,532,604	6	University of California, San Diego	405,563,825
7	Xavier University of Louisiana	14,555,679	7	Stanford University	386,003,275
8	North Carolina Agricultural & Technical State University	10,201,949	8	Massachusetts Institute of Technology	380,832,879
9	Hampton University	10,128,090	9	University of Wisconsin, Madison	364,986,252
10	Jackson State University	9,889,789	10	Washington University, St Louis	360,440,828
11	Tennessee State University	9,885,108	11	University of California, San Francisco	356,743,364
12	Clark Atlanta University	7,999,473	12	University of Pittsburgh	336,901,314
13	Morgan State University	7,904,435	13	Columbia University	334,901,399
14	Texas A&M University, Prairie View A&M	7,887,608	14	Harvard University	332,530,435
15	Alabama A&M University	6,767,007	15	Duke University	327,315,626
16	North Carolina Central University	5,518,094	16	Yale University	312,309,557
17	Spelman College	4,481,609	17	University of Minnesota, Twin Cities	309,877,336
18	Bowie State University	3,996,143	18	University of North Carolina, Chapel Hill	307,967,854
19	South Carolina State University	3,918,911	19	Baylor College of Medicine	273,931,037
20	Southern University, Baton Rouge	3,559,364	20	University of Alabama, Birmingham	260,792,305
21	Alcorn State University	3,275,827	21	Cornell University	258,544,760
22	Norfolk State University	3,127,852	22	University of Southern California	223,851,269
23	University of Arkansas, Pine Bluff	2,981,653	23	University of California, Berkeley	223,779,543
24	Lincoln University	2,872,219	24	Vanderbilt University	223,742,350
25	Kentucky State University	2,826,843	25	Pennsylvania State University, University Park	221,313,180
26	Virginia State University	2,774,001	26	University of Illinois, Urbana-Champaign	206,263,136
27	Fort Valley State University	2,623,199	27	Case Western Reserve University	195,106,497
28	Texas Southern University	2,561,198	28	University of Rochester	189,376,514
29	Langston University	1,973,117	29	University of California, Davis	189,264,822
30	Winston-Salem State University	1,924,488	30	Emory University	189,186,474
31	University of Maryland, Eastern Shore	1,914,127	31	University of Arizona	184,787,624
32	Chicago State University	1,907,774	32	University of Iowa	176,503,090
33	Shaw University	1,868,871	33	Boston University	175,652,126
34	Fisk University	1,830,284	34	Ohio State University, Columbus (includes AES at Wooster)	173,332,020
35	Delaware State University	1,815,646	35	University of Chicago	172,475,309
36	Tougaloo College	1,703,210	36	University of Colorado System Health Sciences Center	171,217,091
37	West Virginia State College	1,672,041	37	University of Virginia, Charlottesville	167,559,784
38	University of the District of Columbia	1,343,829	38	Oregon Health & Science University	166,774,546
39	Savannah State University	1,294,378	39	University of Florida	165,041,811
40	Mississippi Valley State University	1,054,974	40	University of Texas, Southwestern Medical Center at Dallas	162,647,874
41	Benedict College	972,394	41	Northwestern University	161,234,045
42	Bethune-Cookman College	928,908	42	University of Colorado, Boulder	156,690,828
43	Lincoln University of Pennsylvania	862,764	43	University of Utah	154,795,096
44	Elizabeth City State University	792,779	44	Mount Sinai School of Medicine	150,446,538
45	Grambling State University	778,111	45	Mayo Medical School	148,057,109
46	Johnson C Smith University	700,710	46	New York University	143,198,057
47	Oakwood College	567,477	47	University of Illinois, Chicago	142,885,797
48	Fayetteville State University	557,989	48	University of Texas, Austin	140,822,610
49	Alabama State University	546,672	49	Yeshiva University	138,929,910
50	City University of New York, Medgar Evers College	487,926	50	University of Texas, MD Anderson Cancer Center	137,474,907

Table C.22

Top 50 Historically Black Colleges and Universities and Non-Historically Black Colleges and Universities, Excluding Medical Schools, Provided Federal Funds in FY 2002 for Conduct of R&D

Historically Black Colleges and Universities			Non-Historically Black Colleges and Universities		
Average of All Such Institutions Receiving Federal R&D Funds		3,905,857	Average of All Such Institutions Receiving Federal R&D Funds		15,757,256
Average of All Such Institutions		2,700,859	Average of All Such Institutions		6,605,543
Rank	University or College	Total Federal R&D Funds Received	Rank	University or College	Total Federal R&D Funds Received
1	Tuskegee University	26,255,994	1	Johns Hopkins University	603,852,921
2	Howard University	23,484,709	2	Massachusetts Institute of Technology	380,832,879
3	Florida Agricultural & Mechanical University	17,532,604	3	University of Washington, Seattle	267,170,274
4	Meharry Medical College	17,312,324	4	University of Wisconsin, Madison	252,542,298
5	Xavier University of Louisiana	14,555,679	5	University of California, Berkeley	223,779,543
6	North Carolina Agricultural & Technical State University	10,201,949	6	University of California, San Diego	223,136,224
7	Hampton University	10,128,090	7	Pennsylvania State University, University Park	221,313,180
8	Jackson State University	9,889,789	8	University of Michigan, Ann Arbor	215,671,996
9	Tennessee State University	9,885,108	9	University of Illinois, Urbana-Champaign	206,263,136
10	Clark Atlanta University	7,999,473	10	University of Minnesota, Twin Cities	193,278,629
11	Morgan State University	7,904,435	11	University of California, Los Angeles	192,972,655
12	Texas A&M University, Prairie View A&M	7,887,608	12	Harvard University	192,739,471
13	Morehouse College	7,174,735	13	Stanford University	178,020,188
14	Alabama A&M University	6,767,007	14	University of Colorado, Boulder	156,690,828
15	North Carolina Central University	5,518,094	15	Cornell University	148,985,584
16	Spelman College	4,481,609	16	University of Texas, Austin	140,822,610
17	Bowie State University	3,996,143	17	University of North Carolina, Chapel Hill	139,203,963
18	South Carolina State University	3,918,911	18	University of Texas, MD Anderson Cancer Center	137,474,907
19	Southern University, Baton Rouge	3,559,364	19	University of Maryland, College Park	134,507,747
20	Alcorn State University	3,275,827	20	Columbia University	128,680,046
21	Norfolk State University	3,127,852	21	University of California, Davis	128,490,293
22	Charles R. Drew University of Medicine and Science	3,000,000	22	University of Pittsburgh	119,780,447
23	University of Arkansas, Pine Bluff	2,981,653	23	University of Arizona	119,223,966
24	Lincoln University	2,872,219	24	University of Pennsylvania	118,325,960
25	Kentucky State University	2,826,843	25	University of Southern California	116,338,283
26	Virginia State University	2,774,001	26	University of Hawaii, Manoa	110,396,337
27	Fort Valley State University	2,623,199	27	Ohio State University, Columbus (includes AES at Wooster)	109,670,240
28	Texas Southern University	2,561,198	28	Georgia Institute of Technology	106,881,077
29	Langston University	1,973,117	29	Rutgers University, New Brunswick	106,544,770
30	Winston-Salem State University	1,924,488	30	University of Florida	102,406,730
31	University of Maryland, Eastern Shore	1,914,127	31	University of Alabama, Birmingham	101,215,410
32	Chicago State University	1,907,774	32	Texas A&M University, College Station	94,889,514
33	Shaw University	1,868,871	33	Michigan State University	93,631,243
34	Fisk University	1,830,284	34	Purdue University	92,739,428
35	Delaware State University	1,815,646	35	University of Georgia	90,673,538
36	Tougaloo College	1,703,210	36	Carnegie Mellon University	81,445,898
37	West Virginia State College	1,672,041	37	University of California, Irvine	81,278,674
38	University of the District of Columbia	1,343,829	38	Duke University	80,581,034
39	Savannah State University	1,294,378	39	Princeton University	79,803,995
40	Mississippi Valley State University	1,054,974	40	Colorado State University	78,080,076
41	Benedict College	972,394	41	University of Illinois, Chicago	77,948,842
42	Bethune-Cookman College	928,908	42	Boston University	77,713,293
43	Lincoln University of Pennsylvania	862,764	43	University of California, Santa Barbara	71,720,775
44	Elizabeth City State University	792,779	44	University of California, San Francisco	71,311,258
45	Grambling State University	778,111	45	Oregon State University	69,895,307
46	Johnson C. Smith University	700,710	46	Rockefeller University	69,404,849
47	Oakwood College	567,477	47	Northwestern University	68,818,288
48	Fayetteville State University	557,989	48	University of Rochester	68,588,807
49	Alabama State University	546,672	49	Yale University	66,572,770
50	City University of New York, Medgar Evers College	487,926	50	George Washington University (includes Mount Vernon campus)	66,468,174

Table C.23
Affiliated Research Institutes Provided Federal Funds in FY 2001 and FY 2002
for Conduct of R&D (Obligations)

Affiliated Research Institute	University Where Located	FY 2001	FY 2002
Applied Physics Laboratory	Johns Hopkins University	242,489,357	407,881,324
Central Institute for the Deaf	Washington University	1,784,638	1,867,479
Southern Research Institute	University of Alabama at Birmingham	24,532,407	31,137,116
Whitehead Institute of Biomedical Research	Massachusetts Institute of Technology	95,596,833	93,648,426
William Davidson Institute	University of Michigan at Ann Arbor	588,694	195,426
Woods Hole Oceanographic Institution	Massachusetts Institute of Technology	41,743,593	36,057,046
Yale Southern Observatory	Yale University	244,354	225,974

SOURCES OF DATA

This appendix provides a separate table for each state, in alphabetical order, listing the universities and colleges within that state. Only fully accredited four-year institutions are included, and some institutions are grouped within the system to which they belong rather than being listed separately (for example, San Diego State University is listed as part of the California State University System).

The following paragraphs describe our sources for all the data in the tables.

Universities: The names of each state's universities came from the University of Texas Austin's Web Central, which contains a list of regionally accredited U.S. universities organized by state (Web U.S. Universities, by State, available at <http://www.utexas.edu/world/univ/state/>).

Federal R&D Funds: All information on federal research and development (R&D) funds is from the RaDiUS (Research and Development in the United States) database (see Appendix A for a description of this database).

Degrees Granted and Public/Private Status: Our first source of information on the degrees an institution grants and whether the institution is a public or private university or college was the U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) College Opportunities On-Line (COOL) Web site, at <http://www.nces.ed.gov/ipeds/cool/>. If IPEDS COOL did not contain this information, we obtained it directly from the Web site of the specific university or college. When IPEDS COOL was not the source of this information, a footnote so indicates and identifies the actual source.

Schools of Veterinary Medicine: Schools awarding the degree of Doctor of Veterinary Medicine (DVM) were identified using the Web site of the Association of American Veterinary Medical Colleges (AAVMC), at <http://aavmc.org/schools/schools.htm>.

Schools of Medicine, Chiropractic, Optometry, and Pharmacy: We used field-specific Web sites to identify schools awarding the following degrees:

- **Medical Doctor (MD).** We used the Association of American Medical Colleges (AAMC) Web site, at <http://www.aamc.org/members/listings/msalphaae.htm>. Please note that all entries specifying "School of Medicine" refer only to the institutions, or portions of institutions, that award the MD degree.

- Doctor of Osteopathic Medicine (DO). We used the American Association of Colleges of Osteopathic Medicine (AACOM) Web site, at <http://www.aacom.org/colleges/>.
- Doctor of Chiropractic (DC). We used the Association of Chiropractic Colleges Web site, at <http://www.chirocolleges.org/collegest.html>.
- Doctor of Optometry (optometrist) degree (OPT). We used the Association of Schools and Colleges of Optometry Web site, at http://www.opted.org/about_members.cfm.
- Doctor of Podiatric Medicine (DPM). We used the American Association of Podiatric Medicine Web site, at http://www.aacpm.org/careercenter/cz3_links.asp.

Land-Grant Universities: We used the Cooperative State Research, Education, and Extension Service (CSREES) Web site, at <http://www.reeusda.gov/>, to identify land-grant universities. This site contains a directory of land-grant universities that are state partners of the CSREES (<http://www.reeusda.gov/1700/statepartners/usa.htm>). To verify this information, we also consulted the National Association of State Universities and Land-Grant Colleges (NASULGC) Web site, at http://www.nasulgc.org/About_Nasulgc/members_land_grant.htm.

To identify certain historically black land-grant colleges and universities, we used a separate CSREES page, at <http://www.reeusda.gov/1890/>, which provided information on 1890 Land-Grant Colleges and Universities, and the NASULGC Historically Black Colleges and Universities Web site, at http://www.nasulgc.org/About_Nasulgc/members_HBCU.htm. The 1890 Land-Grant Colleges and Universities are labeled “1890” in this appendix.

Historically Black Colleges and Universities (HBCUs): We identified Historically Black Colleges and Universities (HBCUs) using the 2003 U.S. Department of Education—Accredited Postsecondary Minority Institution Web site, at <http://www.ed.gov/offices/OCR/minorityinst.html>, and Peterson’s Black American Colleges and Universities Web site, at http://www.petersons.com/blackcolleges/bacu_default.asp?sponsor=13.

Student Enrollment: Enrollment data for “All Students,” “Undergraduate Students,” and “Graduate + First Professional Degree Students” were primarily obtained from the IPEDS “Enrollment at Title IV Participating, Degree-Granting Institutions: United States, Fall 2001” (U.S. Department of Education, National Center for Education Statistics, 2003). When student enrollment data were not available from this IPEDS publication, we sought the information from IPEDS COOL, at <http://www.nces.ed.gov/ipeds/cool/>. If the data were not available from IPEDS COOL, we went to Peterson’s, at <http://www.petersons.com>, or Hobsons CollegeView, at <http://www.collegeview.com>. If student enrollment data were not available from either Peterson’s or CollegeView, we went to the Web site of the specific university or college and searched for statistics about its student enrollment. If the data were not available on the institution’s Web site, we obtained them by calling the university or college directly. Footnotes indicate institutions for which information on student enrollment was not available from the IPEDS “Enrollment at Title IV Participating,

Degree-Granting Institutions: United States, Fall 2001” and provide the exact source of the information.

Note that, in some cases, a school may be accredited to award a master’s degree or doctorate, even though no graduate students were enrolled in the graduate program according to the IPEDS “Enrollment at Title IV Participating, Degree-Granting Institutions: United States, Fall 2001.” In addition, some schools that offer bachelor’s and first professional degrees but no graduate degrees may have a number of students listed under “Graduate + First Professional Degree Students.” In this appendix, we have combined graduate degrees with first professional degrees, so the number of students listed under “Graduate + First Professional Degree Students” reflects the number of students enrolled in programs that grant first professional degrees. First professional degrees may be awarded in any of the following ten fields: chiropractic (DC or DCM), osteopathic medicine (DO), dentistry (DDS or DMD), pharmacy (PharmD), law (LLB or JD), podiatry (DPM, DP, or PodD), medicine (MD), theology (MDiv, MHL, BD, or Ordination), optometry (OD), or veterinary medicine (DVM).

Number of Faculty: We obtained the number of faculty at each institution from the IPEDS Peer Analysis System, at <http://www.nces.ed.gov/ipeds/pas/>, and the Peterson’s Web site, at <http://www.petersons.com>. When information about number of faculty for an institution was not available on the IPEDS Peer Analysis System or Peterson’s, we sought it at Hobsons CollegeView Web site, at <http://www.collegeview.com>. If information about number of faculty was not available from any of these three sources, we went to the Web site of the specific university or college and searched for statistics about that institution’s number of faculty or actually counted the number of individuals on lists of faculty. If the information was not available on the institution’s Web site, we obtained it by calling the university or college directly. Institutions for which information on number of faculty was not available from the IPEDS Peer Analysis System or Peterson’s are footnoted to indicate the exact source we used. Note that the total number of faculty reported for each institution in this appendix includes both full- and part-time faculty.

Federally Funded Research and Development Center (FFRDC) Operator: Academic institutions that operate FFRDCs were identified using the master list of FFRDCs contained in the National Science Foundation “Federal Funds for Research and Development: Fiscal Years 2000, 2001, 2002” (National Science Foundation, Division of Science Resources Statistics, 2002).

Federal R&D Funds per Capita: We calculated federal R&D funds per capita by dividing the “Federal R&D Funds Received in FY 2002” for each institution by the number of students or faculty at each institution.

ALABAMA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Air University ^a	0	X					X				870	0	0	0	870	0	210	0	no
Alabama A&M University	6,767,007	X	X	X			X	1890	X		5,849	1,157	4,671	1,449	1,178	5,744	369	18,339	no
Alabama State University	546,672	X	X				X		X		5,590	98	4,711	116	879	622	356	1,536	no
Athens State University	0	X					X				2,574	0	2,574	0	0	0	171	0	no
Auburn University	22,697,275	X	X	X	X		X	X			22,469	1,010	18,922	1,200	3,547	6,399	1230	18,453	no
Auburn University at Montgomery	100,000	X	X	X			X				4,982	20	4,166	24	816	123	321	312	no
Birmingham-Southern College	23,467	X	X				X				1,424	16	1,347	17	77	305	172	136	no
Concordia College-Selma	0	X					X		X		781	0	781	0	0	0	40	0	no
Faulkner University	0	X	X				X				2,640	0	2,338	0	302	0	53	0	no
Huntingdon College	886,000	X					X				615	1,441	615	1,441	0	0	68	13,029	no
Jacksonville State University	2,315,600	X	X				X				8,336	278	6,869	337	1,467	1,578	387	5,983	no
Judson College	0	X					X				345	0	345	0	0	0	29	0	no
Miles College	0	X					X			X	1,637	0	1,637	0	0	0	112	0	no
Oakwood College	567,477	X					X		X		1,778	319	1,778	319	0	0	138	4,112	no
Samford University	50,000	X	X	X			X				4,377	11	2,890	17	1,487	34	413	121	no
Selma University ^b	0	X					X		X		287	0	287	0	0	0	29	0	no
Southeastern Bible College	0	X					X				200	0	200	0	0	0	18	0	no
Southern Christian University	0	X	X	X			X				388	0	155	0	233	0	10	0	no
Spring Hill College	1,599,000	X	X				X				1,483	1,078	1,244	1,285	239	6,690	130	12,300	no
Stillman College	50,000	X					X		X		1,513	33	1,513	33	0	0	83	602	no
Talladega College	0	X					X		X		540	0	540	0	0	0	48	0	no
Troy State University																			
Troy (main campus) ^c	0	X	X				X				11,512	0	7,241	0	4,150	0	672	0	no
Dothan	0	X	X				X				1,855	0	1,499	0	356	0	110	0	no
Phenix City ^d	0	X	X				X				985	0	412	0	635	0	21	0	no
Montgomery	0	X	X				X				3,123	0	2,696	0	427	0	213	0	no
Tuskegee University	26,255,994	X	X	X	X		X	1890	X		2,880	9,117	2,513	10,448	367	71,542	237	110,785	no
University of Alabama System																			
Birmingham	260,792,305	X	X	X			X				14,695	17,747	9,954	26,200	4,741	55,008	1,966	132,651	no
School of Medicine	159,576,895																		
Huntsville	24,343,319	X	X	X			X				6,754	3,604	5,466	4,454	1,288	18,900	500	48,687	no
Tuscaloosa (main campus)	18,193,900	X	X	X			X				19,130	951	15,201	1,197	3,929	4,631	1,087	16,738	no
University of Mobile	0	X	X				X				1,987	0	1,803	0	184	0	86	0	no
University of Montevallo	0	X	X				X				2,935	0	2,559	0	376	0	201	0	no
University of North Alabama	0	X	X				X				5,522	0	4,852	0	670	0	291	0	no
University of South Alabama	22,717,898	X	X	X	X		X				12,122	1,874	9,572	2,373	2,550	8,909	836	27,175	no
School of Medicine	11,153,321																		
University of South Alabama-Baldwin	0	X	X				X				8,342	0	6,398	0	1,944	0	524	0	no
University of West Alabama	100,000	X	X				X				1,974	51	1,625	62	349	287	108	926	no
^a All information about Air University provided via personal communication with the registrar's office at Air University.																			
^b All information about Selma University from Peterson's Black American Colleges and Universities http://www.petersons.com/blackcolleges/profiles/selma.asp?sponsor=13 .																			
^c IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001 reports combined student enrollment data for Troy State University Main Campus (Troy) and Phenix City Campus. Therefore, enrollment data were calculated for the Main Campus by subtracting the numbers of students enrolled at the Phenix City Campus from the numbers reported in IPEDS Enrollment at Title IV participating, degree-granting institutions.																			
^d Student enrollment and faculty data from CollegeView.com.																			

ALASKA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Alaska Bible College ^a	0	X					X				44	0	44	0	0	0	12	0	no
Alaska Pacific University	260,000	X	X				X				653	398	454	573	199	1,307	106	2,453	no
Sheldon Jackson College	2,000,000	X					X				158	12,658	158	12,658	0	0	15	133,333	no
University of Alaska System																			
Anchorage	2,873,388	X	X				X				15,040	191	14,404	199	636	4,518	1,145	2,510	no
Fairbanks	52,390,100	X	X	X			X	X			7,142	7,335	6,309	8,304	833	62,893	768	68,216	no
Southeast (Juneau)	73,370	X	X				X				3,307	22	3,219	23	88	834	248	296	no

^a Enrollment information from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2000. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

ARIZONA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
American Graduate School of International Management	0	X					X			1,548	0	0	0	1,548	0	73	0	no	
American Indian College of the Assemblies of God	0	X					X			74	0	74	0	0	0	13	0	no	
Arizona State University																			
Tempe (main campus)	56,955,731	X	X	X			X			45,693	1,246	35,191	1,618	10,502	5,423	1,985	28,693	no	
Phoenix (ASU West)	0	X	X				X			5,804	0	4,226	0	1,578	0	300	0	no	
Mesa (ASU East)	0	X	X					X		2,403	0	1,862	0	541	0	103	0	no	
DeVry University-Phoenix	0	X	X				X			3,421	0	3,050	0	371	0	112	0	no	
Embry-Riddle Aeronautical University ^a	0	X	X				X			1,740	0	1,724	0	16	0	107	0	no	
Grand Canyon University	0	X	X				X			4,113	0	1,609	0	2,504	0	251	0	no	
Midwestern University ^b	0	X	X		DO		X			1,063	0	118	0	945	0	69	0	no	
Northern Arizona University	8,177,851	X	X	X				X		19,728	415	13,740	595	5,988	1,366	1,224	6,681	no	
Prescott College	461,020	X	X				X			1,005	459	827	557	178	2,590	74	6,230	no	
University of Arizona	184,787,624	X	X	X		X		X	X	35,747	5,169	27,532	6,712	8,215	22,494	2,460	75,117	no	
School of Medicine	65,563,658																		
University of Phoenix																			
Phoenix	0	X	X	X			X			7,586	0	4,551	0	3,035	0	851	0	no	
Southern Arizona (Tuscon)	0	X	X	X			X			2,993	0	2,083	0	910	0	371	0	no	
Western International University	0	X	X				X			1,322	0	966	0	356	0	257	0	no	

^a Enrollment information from Peterson's. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^b Faculty data from Midwestern University website <http://www.midwestern.edu/glendale/>. Note also that the Arizona College of Osteopathic Medicine is part of Midwestern University.

ARKANSAS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Arkansas Baptist College	0	X					X			X	235	0	235	0	0	0	27	0	no
Arkansas State University	83,000	X	X	X				X			10,568	8	9,426	9	1,142	73	543	153	no
Arkansas Tech University	17,210	X	X					X			5,576	3	5,205	3	371	46	274	63	no
Central Baptist College	0	X					X				358	0	358	0	0	0	37	0	no
Harding University	0	X	X				X				4,677	0	4,078	0	599	0	230	0	no
Henderson State University	0	X	X					X			3,465	0	3,135	0	330	0	214	0	no
Hendrix College	209,413	X	X				X				1,085	193	1,079	194	6	34,902	79	2,651	no
John Brown University	0	X	X				X				1,675	0	1,537	0	138	0	152	0	no
Lyon College	68,680	X					X				521	132	521	132	0	0	41	1,675	no
Ouachita Baptist University	0	X					X				1,610	0	1,610	0	0	0	145	0	no
Philander Smith College	0	X					X		X		859	0	859	0	0	0	43	0	no
Southern Arkansas University	0	X	X					X			3,127	0	2,863	0	264	0	179	0	no
University of Arkansas System																			
Fayetteville	20,643,923	X	X	X				X	X		15,752	1,311	12,818	1,611	2,934	7,036	1,329	15,533	no
Fort Smith	0	X					X				5,746	0	5,746	0	0	0	295	0	no
Little Rock	2,609,973	X	X	X				X			11,318	231	9,184	284	2,134	1,223	786	3,321	no
Medical Sciences	42,301,983	X	X	X	X		X				1,936	21,850	673	62,856	1,263	33,493	845	50,062	no
<i>School of Medicine</i>	<i>40,106,026</i>																		
Monticello	0	X	X				X				2,332	0	2,108	0	224	0	139	0	no
Pine Bluff	2,981,653	X	X						1890	X	3,144	948	3,052	977	92	32,409	217	13,740	no
University of Central Arkansas	422,072	X	X	X				X			8,486	50	7,540	56	946	446	516	818	no
University of the Ozarks	0	X					X				654	0	654	0	0	0	41	0	no
Williams Baptist College	0	X					X				688	0	688	0	0	0	42	0	no

CALIFORNIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)		
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Alliant International University ^a	0	X	X			X				630	0	0	0	630	0	35	0	no			
Antioch University ^b	0	X	X			X				884	0	295	0	589	0	71	0	no			
Art Center College of Design	0	X	X			X				1,465	0	1,377	0	88	0	362	0	no			
Azusa Pacific University	0	X	X	X		X				6,835	0	3,654	0	3,181	0	281	0	no			
Bethany College	0	X	X			X				577	0	519	0	58	0	59	0	no			
Biola University	0	X	X	X		X				4,317	0	2,949	0	1,368	0	321	0	no			
California Baptist University	0	X	X			X				2,090	0	1,580	0	510	0	159	0	no			
California College of Arts & Crafts	0	X	X			X				1,290	0	1,163	0	127	0	368	0	no			
California Institute of the Arts	0	X	X			X				1,246	0	824	0	422	0	261	0	no			
California Institute of Integral Studies	0	X	X	X		X				927	0	37	0	890	0	56	0	no			
California Institute of Technology	63,951,569	X	X	X		X				2,058	31,075	942	67,889	1,116	57,304	422	151,544	Jet Propulsion Laboratory			
California Lutheran University	0	X	X	X		X				2,857	0	1,846	0	1,011	0	241	0	no			
California State University System																					
Bakersfield	0	X	X			X				7,050	0	5,274	0	1,776	0	442	0	no			
California Maritime Academy	0	X				X				606	0	606	0	0	0	77	0	no			
California Polytechnic State University, San Luis Obispo	1,137,151	X	X			X				18,079	63	17,114	66	965	1,178	1,161	979	no			
California State Polytechnic University, Pomona	4,463,274	X	X			X				19,041	234	16,977	263	2,064	2,162	1,074	4,156	no			
Chico	518,294	X	X			X				16,704	31	14,773	35	1,931	268	955	543	no			
Dominguez Hills	2,110,834	X	X			X				12,871	164	7,968	265	4,903	431	738	2,860	no			
Fresno	1,591,282	X	X	X		X				20,007	80	16,259	98	3,748	425	1,265	1,258	no			
Fullerton	1,827,124	X	X			X				30,357	60	25,261	72	5,096	359	1,675	1,091	no			
Hayward	897,324	X	X			X				13,240	68	9,796	92	3,442	261	789	1,137	no			
Long Beach	10,199,806	X	X	X		X				33,259	307	27,723	368	5,536	1,842	1,886	5,408	no			
Los Angeles	29,582,307	X	X	X		X				20,675	1,431	14,150	2,091	6,525	4,534	1,155	25,612	no			
Monterey Bay	1,903,129	X	X			X				3,020	630	2,807	678	213	8,935	261	7,292	no			
Northridge	5,634,433	X	X			X				31,448	179	24,814	227	6,634	849	1,677	3,360	no			
Sacramento	2,851,149	X	X	X		X				26,923	106	21,786	131	5,137	555	1,491	1,912	no			
San Bernardino	1,076,322	X	X			X				15,985	67	11,137	97	4,848	222	894	1,204	no			
San Marcos	3,111,775	X	X			X				6,496	479	5,272	590	1,224	2,542	398	7,819	no			
Stanislaus	225,000	X	X			X				7,534	30	5,694	40	1,840	122	453	497	no			
Humboldt State University	1,157,265	X	X			X				7,382	157	6,542	177	840	1,378	565	2,048	no			
San Diego State University	28,210,342	X	X	X		X				34,171	826	28,042	1,006	6,129	4,603	1,924	14,662	no			
San Francisco State University	12,660,731	X	X	X		X				26,866	471	20,921	605	5,945	2,130	1,712	7,395	no			
San Jose State University	13,920,163	X	X			X				28,007	497	22,237	626	5,770	2,413	1,622	8,582	no			
Sonoma State University	955,203	X	X			X				7,590	126	6,411	149	1,179	810	502	1,903	no			
Chapman University ³	0	X	X	X		X				9,370	0	4,875	0	4,495	0	494	0	no			
Charles R. Drew University of Medicine and Science <i>School of Medicine</i> ^c	19,990,406 16,990,406	X	X			X			X	95	210,425	88	227,164	7	2,855,772	338	59,143	no			
Christian Heritage College	0	X				X				674	0	674	0	0	0	35	0	no			
Claremont Consortium of Colleges																					
Claremont Graduate University (includes Keck Institute of Applied Life Sciences)	3,517,269	X	X			X				1,944	1,809	0	0	1,944	1,809	139	25,304	no			
Claremont McKenna College	93,151	X				X				1,044	89	1,044	89	0	0	116	803	no			
Harvey Mudd College	75,812	X	X			X				707	107	706	107	1	75,812	85	892	no			
Pitzer College	305,959	X				X				921	332	921	332	0	0	75	4,079	no			
Pomona College	1,016,526	X				X				1,548	657	1,548	657	0	0	227	4,478	no			

CALIFORNIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Claremont Consortium of Colleges (cont.)																			
Scripps College		0	X				X			816	0	798	0	18	0	97	0	no	
Cleveland Chiropractic College - Los Angeles		0	X			DC	X			635	0	138	0	497	0	54	0	no	
Cogswell Polytechnical College		0	X				X			413	0	413	0	0	0	84	0	no	
Concordia University-Irvine		0	X	X			X			1,314	0	1,112	0	202	0	49	0	no	
DeVry University-Long Beach		0	X	X			X			2,853	0	2,853	0	0	0	129	0	no	
DeVry University-Pomona		0	X	X			X			3,669	0	3,669	0	0	0	144	0	no	
Dominican University of California	300,000	X	X				X			1,436	209	946	317	490	612	225	1,333	no	
Fielding Graduate Institute		0	X	X			X			1,459	0	0	0	1,459	0	54	0	no	
Fresno Pacific University		0	X	X			X			2,016	0	1,080	0	936	0	72	0	no	
Fuller Theological Seminary		0	X	X			X			2,599	0	0	0	2,599	0	60	0	no	
Golden Gate University ²		0	X	X	X		X			4,843	0	1,071	0	3,772	0	916	0	no	
Holy Names College		0	X	X			X			832	0	506	0	326	0	122	0	no	
Hope International University		0	X	X			X			1,022	0	805	0	217	0	164	0	no	
Humphreys College		0	X				X			658	0	628	0	30	0	61	0	no	
Institute of Transpersonal Psychology		0	X	X			X			348	0	0	0	348	0	31	0	no	
John F. Kennedy University		0	X	X	X		X			1,523	0	210	0	1,313	0	276	0	no	
La Sierra University		0	X	X	X		X			1,566	0	1,328	0	238	0	90	0	no	
Life Chiropractic College		0				DC	X			599	0	0	0	599	0	69	0	no	
Life Pacific College ³		0	X				X			438	0	438	0	0	0	35	0	no	
Lincoln University ¹		0	X	X			X			315	0	170	0	145	0	9	0	no	
Loma Linda University	24,921,737	X	X	X		X	X			3,162	7,882	979	25,456	2,183	11,416	377	66,105	no	
<i>School of Medicine</i>	13,200,505																		
Loyola Marymount University	167,300	X	X				X			7,921	21	5,144	33	2,777	60	373	449	no	
The Master's College and Seminary		0	X	X			X			1,524	0	1,176	0	348	0	60	0	no	
Menlo College		0	X				X			637	0	637	0	0	0	75	0	no	
Mills College	534,261	X	X	X			X			1,176	454	742	720	434	1,231	153	3,492	no	
Monterey Institute of International Studies		0	X	X			X			683	0	14	0	669	0	83	0	no	
Mount St. Mary's College	484,182	X	X	X			X			1,965	246	1,694	286	271	1,787	170	2,848	no	
National Hispanic University	498,181	X					X			340	1,465	218	2,285	122	4,083	38	13,110	no	
National University		0	X	X			X			18,267	0	5,360	0	12,907	0	1,505	0	no	
New College of California		0	X	X			X			604	0	353	0	251	0	88	0	no	
Notre Dame de Namur University		0	X	X			X			1,712	0	967	0	745	0	180	0	no	
Occidental College	98,036	X	X				X			1,796	55	1,772	55	24	4,085	198	495	no	
Otis College of Art & Design	66,937	X	X				X			965	69	927	72	38	1,762	252	266	no	
Pacific Oaks College		0	X	X			X			798	0	258	0	540	0	36	0	no	
Pacific Union College		0	X	X			X			1,425	0	1,420	0	5	0	110	0	no	
Pacific Graduate Institute		0	X	X			X			565	0	0	0	565	0	50	0	no	
Palmer College of Chiropractic West		0				DC	X			470	0	0	0	470	0	62	0	no	
Patten College		0	X	X			X			526	0	451	0	75	0	79	0	no	
Pepperdine University	130,450	X	X	X			X			7,383	18	2,936	44	4,447	29	633	206	no	
Point Loma Nazarene College	225,000	X	X				X			2,881	78	2,353	96	528	426	259	869	no	
Saint Mary's College of California		0	X	X			X			4,127	0	3,061	0	1,066	0	467	0	no	
Samuel Merritt College		0	X	X	X		DPM	X		652	0	251	0	401	0	97	0	no	
San Jose Christian College		0	X				X			312	0	312	0	0	0	66	0	no	
Santa Clara University	268,780	X	X	X			X			7,368	36	4,279	63	3,089	87	623	431	no	

CALIFORNIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Saybrook Graduate School & Research Center	0	X	X				X				446	0	0	0	446	0	92	0	no
Simpson College	0	X	X				X				1,161	0	986	0	175	0	88	0	no
Southern California Institute of Architecture	0	X	X				X				257	0	19	0	238	0	67	0	no
Southern California College of Optometry	0					OPT	X				379	0	0	0	379	0	62	0	no
Southern California University of Health Sciences - Los Angeles College of Chiropractic	0	X				DC	X				611	0	0	0	611	0	77	0	no
Stanford University <i>School of Medicine</i>	386,003,275 207,983,087	X	X	X			X	X			18,591	20,763	7,279	53,030	11,312	34,123	2,491	154,959	Stanford Linear Accelerator Center
Thomas Aquinas College	0	X					X				301	0	301	0	0	0	26	0	no
Touro University College of Osteopathic Medicine ⁹	0					DO	X				871	0	0	0	871	0	39	0	no
University of California System																			
Berkeley	223,779,543	X	X	X			X	X			32,128	6,965	23,269	9,617	8,859	25,260	3,843	58,230	Ernest Orlando Lawrence Berkeley National Laboratory; Lawrence Livermore National Laboratory; Los Alamos National Laboratory
Davis	189,264,822	X	X	X	X		X	X			27,292	6,935	21,356	8,862	5,936	31,884	4,083	46,354	
<i>School of Medicine</i>	60,774,529																		
Irvine	135,703,283	X	X	X		X	X				21,885	6,201	17,723	7,657	4,162	32,605	2,489	54,521	
<i>School of Medicine</i>	54,424,609																		
Los Angeles	412,554,554	X	X	X		X	X				37,494	11,003	25,328	16,288	12,166	33,910	5,087	81,100	
<i>School of Medicine</i>	219,581,899																		
Oakland	2,287,645																		
Riverside	34,486,910	X	X	X			X	X			14,429	2,390	12,714	2,713	1,715	20,109	1,276	27,027	
San Diego	405,563,825	X	X	X		X	X				21,558	18,813	17,505	23,168	4,053	100,065	3,114	130,239	
<i>School of Medicine</i>	182,427,601																		
San Francisco	356,743,364	X	X	X		X	X				3,574	99,816	34	10,492,452	3,540	100,775	3,717	95,976	
<i>School of Medicine</i>	285,432,106																		
Santa Barbara	71,720,775	X	X	X			X				20,373	3,520	17,724	4,047	2,649	27,075	1,713	41,869	
Santa Cruz	36,380,261	X	X	X			X				13,170	2,762	12,034	3,023	1,136	32,025	1,131	32,166	
University of Judaism	0	X					X				229	0	108	0	121	0	60	0	no
University of La Verne	0	X	X				X				7,283	0	3,814	0	3,469	0	481	0	no
University of Northern California ^h	0	X	X				X				46	0	11	0	35	0	23	0	no
University of the Pacific	157,046	X	X	X			X				5,697	28	3,185	49	2,512	63	625	251	no
University of Redlands	3,990,000	X	X				X				4,224	945	3,114	1,281	1,110	3,595	548	7,281	no
University of San Diego	1,533,950	X	X	X			X				7,062	217	4,809	319	2,253	681	685	2,239	no
University of San Francisco	511,677	X	X	X			X				8,063	63	4,687	109	3,376	152	671	763	no
University of Southern California <i>School of Medicine</i>	223,851,269 107,512,986	X	X	X		X	X				29,813	7,509	16,037	13,958	13,776	16,249	3,715	60,256	no
University of West Los Angeles	0	X					X				182	0	0	0	182	0	14	0	no
US Naval Postgraduate School	783,224	X	X				X				1,231	636	0	0	1,231	636	497	1,576	no
Vanguard University of Southern California	0	X	X				X				1,827	0	1,578	0	249	0	159	0	no
Western University of Health Sciences ⁱ	0	X				X	DO	X			1,435	0	0	0	1,435	0	92	0	no
Westminster Theological Seminary in California	0	X	X				X				118	0	0	0	118	0	12	0	no
Westmont College	143,240	X					X				1,379	104	1,374	104	5	28,648	135	1,061	no
Whittier College	0	X	X				X				2,098	0	1,270	0	828	0	162	0	no
Woodbury University	0	X	X				X				1,404	0	1,189	0	215	0	185	0	no

CALIFORNIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HECU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PhD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
^a On July 1, 2001, United States International University and Alliant University/California School of Professional Psychology were joined to create a new university called Alliant International University.																			
^b Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^c The Charles R. Drew University of Medicine and Science consists of the College of Medicine and the College of Allied Health, both of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Charles R. Drew University of Medicine and Science on the line above.																			
^d Includes enrollment information for all six campuses.																			
^e Life Pacific University was previously called Life Bible College.																			
^f Enrollment information from IPEDS College Opportunities On-Line for Fall 2002. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001. Faculty information from Pet																			
^g All information from http://www.tucom.edu .																			
^h All information from http://www.uncm.edu/ForStudents/Catalog2003.pdf and phone call to university.																			
ⁱ The College of Veterinary Medicine at Western University of Health Sciences was founded by a vote of the Board of Trustees on August 8, 1998, and admitted its first class in August 2003.																			

COLORADO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Adams State College	0	X	X					X			7,826	0	2,164	0	5,662	0	171	0	no
Colorado Christian University	0	X	X				X				1,849	0	1,763	0	86	0	48	0	no
Colorado College	0	X	X				X				1,952	0	1,934	0	18	0	205	0	no
Colorado School of Mines	12,545,429	X	X	X				X			3,705	3,386	2,952	4,250	753	16,661	333	37,674	no
Colorado State University	78,080,076	X	X	X	X			X	X		28,103	2,778	23,439	3,331	4,664	16,741	1,403	55,652	no
Colorado Technical University ^a	0	X	X	X			X				1,972	0	1,536	0	436	0	51	0	no
Fort Lewis College	1,534,927	X						X			4,429	347	4,429	347	0	0	212	7,240	no
Mesa State College	77,742	X	X					X			5,302	15	5,253	15	49	1,587	216	360	no
Metropolitan State College of Denver	0	X						X			18,445	0	18,445	0	0	0	1,000	0	no
Naropa Institute	0	X	X				X				1,063	0	431	0	632	0	46	0	no
Nazarene Bible College	0	X					X				463	0	463	0	0	0	15	0	no
Regis University	0	X	X	X			X				10,069	0	5,347	0	4,722	0	1,304	0	no
Rocky Mountain College of Art & Design	0	X					X				419	0	419	0	0	0	59	0	no
United States Air Force Academy	0	X					X				4,365	0	4,365	0	0	0	110	0	no
University of Colorado System																			
Boulder	156,690,828	X	X	X				X			30,063	5,212	24,245	6,463	5,818	26,932	2,341	66,933	no
Colorado Springs	183,143	X	X	X				X			7,980	23	5,350	34	2,630	70	497	368	no
Denver	3,402,611	X	X	X				X			15,004	227	8,790	387	6,214	548	933	3,647	no
Health Sciences Center	171,217,091	X	X	X	X		X				2,523	67,863	381	449,389	2,142	79,933	2,742	62,442	no
School of Medicine	158,631,658																		
University of Denver	9,036,381	X	X	X			X				9,385	963	4,110	2,199	5,275	1,713	473	19,104	no
University of Northern Colorado	376,788	X	X	X				X			12,301	31	10,161	37	2,140	176	602	626	no
University of Southern Colorado	532,207	X	X					X			5,606	95	5,474	97	132	4,032	298	1,786	no
Western State College	0	X						X			2,308	0	2,308	0	0	0	137	0	no

^a Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

CONNECTICUT Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Albertus Magnus College	0	X	X				X				2,269	0	1,872	0	397	0	125	0	no
Central Connecticut State University	55,896	X	X	X			X				12,368	5	9,551	6	2,817	20	470	119	no
Charter Oak State College	0	X					X				1,496	0	1,496	0	0	0	21	0	no
Connecticut College	278,406	X	X				X				1,879	148	1,835	152	44	6,327	181	1,538	no
Eastern Connecticut State University	0	X	X				X				5,337	0	5,018	0	319	0	407	0	no
Fairfield University	323,263	X	X				X				5,154	63	4,164	78	990	327	474	682	no
Holy Apostles College & Seminary	0	X	X				X				250	0	38	0	212	0	31	0	no
Mitchell College	0	X					X				708	0	708	0	0	0	46	0	no
Quinnipiac College	0	X	X				X				6,675	0	5,056	0	1,619	0	271	0	no
Rensselaer at Hartford	0	X					X				1,550	0	0	0	1,550	0	37	0	no
Sacred Heart University	0	X	X				X				5,953	0	4,131	0	1,822	0	455	0	no
St Joseph College	0	X	X				X				1,939	0	1,287	0	652	0	193	0	no
Southern Connecticut State University	67,956	X	X	X			X				12,254	6	8,316	8	3,938	17	899	76	no
Teikyo Post University	0	X					X				1,350	0	1,350	0	0	0	152	0	no
Trinity College	0	X	X				X				2,256	0	2,074	0	182	0	284	0	no
United States Coast Guard Academy	0	X					X				897	0	897	0	0	0	59	0	no
University of Bridgeport	0	X	X	X		DC	X				3,162	0	1,181	0	1,981	0	690	0	no
University of Connecticut	96,507,764	X	X	X			X	X			19,876	4,855	14,050	6,869	5,826	16,565	1,169	82,556	no
<i>School of Medicine</i>	<i>52,807,496</i>																		
University of Hartford	528,446	X	X	X			X				6,844	77	5,425	97	1,419	372	690	766	no
University of New Haven	33,417	X	X	X			X				4,229	8	2,532	13	1,697	20	336	99	no
Wesleyan University	3,857,772	X	X	X			X				3,237	1,192	2,792	1,382	445	8,669	334	11,550	no
Western Connecticut State University	0	X	X				X				5,918	0	5,080	0	838	0	442	0	no
Yale University	312,309,557	X	X	X			X	X			11,136	28,045	5,286	59,082	5,850	53,386	3,392	92,072	no
<i>School of Medicine</i>	<i>245,736,787</i>																		

DELAWARE Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted						Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD	Number					Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																			Number	
Delaware State University	1,815,646	X	X					X	1890	X	3,343	543	3,084	589	259	7,010	174	10,435	no	
Goldie-Beacom College	0	X	X				X				1,323	0	1,125	0	198	0	43	0	no	
University of Delaware	46,179,667	X	X	X				X	X		20,949	2,204	18,007	2,565	2,942	15,697	1,075	42,958	no	
Wesley College	0	X	X				X				2,018	0	1,915	0	103	0	130	0	no	
Wilmington College	0	X	X	X			X				5,829	0	3,716	0	2,113	0	461	0	no	

DISTRICT OF COLUMBIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
American University	1,321,681	X	X	X			X				10,692	124	5,850	226	4,842	273	1,114	1,186	no
The Catholic University of America	6,614,506	X	X	X			X				5,510	1,200	2,587	2,557	2,923	2,263	641	10,319	no
Corcoran College of Art & Design	0	X					X				372	0	372	0	0	0	34	0	no
Gallaudet University	1,034,463	X	X	X			X				1,583	653	1,200	862	383	2,701	222	4,660	no
George Washington University (includes Mount Vernon campus)	82,962,959	X	X	X		X	X				22,184	3,740	10,063	8,244	12,121	6,845	1,971	42,092	no
<i>School of Medicine</i>	16,494,785																		
Georgetown University	83,320,760	X	X	X		X	X				12,688	6,567	6,422	12,974	6,266	13,297	1,462	56,991	no
<i>School of Medicine</i>	49,236,886																		
Howard University	39,489,251	X	X	X		X	X		X		11,004	3,589	6,971	5,665	4,033	9,792	1,542	25,609	no
<i>School of Medicine</i>	16,004,542																		
Joint Military Intelligence College ^a	0	X	X				X				442	0	38	0	404	0	38	0	no
National Defense University ^b	0	X					X				1000	0	0	0	500	0	285	0	no
Southeastern University	97,739	X	X			X					982	100	513	191	469	208	94	1,040	no
Strayer University	0	X	X			X					14,009	0	11,673	0	2,336	0	527	0	no
Trinity College	0	X	X			X					1,410	0	930	0	480	0	195	0	no
University of the District of Columbia	1,343,829	X	X				X	X	X		5,589	240	5,140	261	449	2,993	718	1,872	no

NOTE: The amounts above do not include all or part of two Contracts totalling \$258,000 that were awarded to the Consortium of Universities of the Washington Metropolitan Area (CUWMA). The latter is an organization comprised of both public and private higher education institutions located in the District of Columbia, including a two-year technical institution, as well as one institution located in the inner suburbs of Maryland and two institutions located in the inner suburbs of Virginia.

^a Enrollment and Faculty information from CollegeView.com. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^b Enrollment information is from the website: <http://www.ndu.edu/colleges.cfm>. Faculty information comes from the NDU catalog 2002-2004 <http://www.ndu.edu/info/Catalog/index.htm>.

FLORIDA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
The Baptist College of Florida	0	X				X					575	0	575	0	0	0	47	0	no	
Barry University	1,591,852	X	X	X		X					8,691	183	5,907	269	2,784	572	883	1,803	no	
Bethune-Cookman College	928,908	X				X			X		2,724	341	2,724	341	0	0	193	4,813	no	
Carlos Albizu University-Miami	0	X	X	X		X					610	0	144	0	466	0	18	0	no	
Clearwater Christian College	0	X				X					732	0	732	0	0	0	50	0	no	
DeVry University-Orlando	0	X	X			X					803	0	803	0	0	0	43	0	no	
Eckerd College	10,500	X				X					1,582	7	1,582	7	0	0	256	41	no	
Edward Waters College	0	X				X			X		1,320	0	1,320	0	0	0	34	0	no	
Embry-Riddle Aeronautical University	1,565,670	X	X			X					13,298	118	10,685	147	2,613	599	240	6,524	no	
Flagler College	0	X				X					1,852	0	1,852	0	0	0	167	0	no	
Florida Agricultural & Mechanical University	17,532,604	X	X	X		X		1890	X		12,316	1,424	10,853	1,615	1,463	11,984	520	33,717	no	
Florida Atlantic University	11,385,336	X	X	X		X					23,345	488	19,303	590	4,042	2,817	760	14,981	no	
Florida Christian College	0	X				X					213	0	213	0	0	0	26	0	no	
Florida College	0	X				X					560	0	560	0	0	0	41	0	no	
Florida Gulf Coast University	149,840	X	X			X					4,214	36	3,403	44	811	185	168	892	no	
Florida Hospital College of Health Sciences	0	X				X					746	0	746	0	0	0	52	0	no	
Florida Institute of Technology	2,450,656	X	X	X		X					4,409	556	2,191	1,119	2,218	1,105	240	10,211	no	
Florida International University	21,493,187	X	X	X		X					31,727	677	25,971	828	5,756	3,734	1,447	14,854	no	
Florida Memorial College	0	X				X			X		2,154	0	2,154	0	0	0	230	0	no	
Florida Metropolitan University	0	X	X			X					11,608	0	11,074	0	534	0	389	0	no	
Florida Southern College	0	X	X			X					2,496	0	2,448	0	48	0	163	0	no	
Florida State University	37,317,951	X	X	X		X					34,982	1,067	28,231	1,322	6,751	5,528	1,266	29,477	no	
Hobe Sound Bible College	0	X				X					145	0	145	0	0	0	15	0	no	
International College ^a	0	X	X			X					1,227	0	1,100	0	127	0	102	0	no	
International Fine Arts College	0	X	X			X					1,100	0	1,046	0	54	0	116	0	no	
Jacksonville University	0	X	X			X					2,519	0	2,213	0	306	0	113	0	no	
Jones College ^a	0	X				X					829	0	829	0	0	0	13	0	no	
Lynn University	0	X	X	X		X					2,006	0	1,821	0	185	0	247	0	no	
Northwood University	0	X				X					963	0	963	0	0	0	65	0	no	
Nova Southeastern University	820,796	X	X	X		DO OPT	X				19,059	43	4,012	205	15,047	55	1,288	647	no	
Palm Beach Atlantic College	0	X	X			X					2,584	0	2,216	0	368	0	286	0	no	
Palmer College of Chiropractic Florida ^b	0					DC	X				87	0	0	0	87	0	19	0	no	
Ringling School of Art & Design	0	X				X					969	0	969	0	0	0	96	0	no	
Rollins College	15,000	X	X			X					3,717	4	2,972	5	745	20	307	49	no	
Saint John Vianney College Seminary	0	X				X					75	0	68	0	7	0	18	0	no	
Saint Leo College	0	X	X			X					9,931	0	9,684	0	247	0	668	0	no	
St. Thomas University	1,070,000	X	X			X					2,403	445	1,286	832	1,117	958	221	4,842	no	
Southeastern College of the Assemblies of God	0	X				X					1,363	0	1,363	0	0	0	77	0	no	
Stetson University	2,634,215	X	X			X					3,255	809	2,174	1,212	1,081	2,437	341	7,725	no	
Trinity College of Florida	0	X				X					162	0	162	0	0	0	16	0	no	
University of Central Florida	30,275,907	X	X	X		X					35,850	845	30,181	1,003	5,669	5,341	1,598	18,946	no	
University of Florida	165,041,811	X	X	X	X	X		X	X		46,515	3,548	33,639	4,906	12,876	12,818	3,797	43,466	no	
School of Medicine	62,635,081																			
University of Miami	119,676,758	X	X	X		X	X				14,436	8,290	9,359	12,787	5,077	23,572	2,383	50,221	no	
School of Medicine	78,516,005																			
University of North Florida	2,449,136	X	X	X		X					12,992	189	11,134	220	1,858	1,318	610	4,015	no	

FLORIDA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of South Florida																			
Tampa (main campus) ^{c,d}	72,080,182	X	X	X		X	X				29,195	2,469	23,626	3,051	5,569	12,943	2,228	32,352	no
School of Medicine	28,743,812																		
Saint Petersburg ^{c,d}	1,645,748	X	X	X			X				3,464	475	3,044	541	420	3,918	133	12,374	no
Sarasota ^{c,d}		0	X	X			X				1,183	0	1,015	0	168	0	37	0	no
Lakeland ^{c,d}		0	X	X			X				726	0	603	0	123	0	22	0	no
University of Tampa		0	X	X			X				3,821	0	3,328	0	493	0	329	0	no
University of West Florida	1,064,260	X	X	X			X				9,052	118	7,422	143	1,630	653	250	4,257	no
Warner Southern College		0	X	X			X				1,117	0	1,082	0	35	0	109	0	no
Webber College		0	X	X			X				498	0	451	0	47	0	30	0	no
^a Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^b Palmer College of Chiropractic Florida admitted its first class in October 2002. Degree information, enrollment data, and faculty data from Palmer College of Chiropractic Florida website http://www.palmer.edu/PCCF/Default.htm .																			
^c Student enrollment and faculty data from University of South Florida InfoMart at http://isis2.admin.usf.edu/usfirp/infomart/ .																			
^d Degree information from University of South Florida website http://www.usf.edu .																			

GEORGIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
Agnes Scott College	172,115	X	X				X				885	194	869	198	16	10,757	119	1,446	no	
American InterContinental University ^a		X	X				X				2,613	0	2,101	0	512	0	117	0	no	
Art Institute of Atlanta ^b		X					X				2,437	0	2,437	0	0	0	146	0	no	
Atlanta Christian College		X					X				409	0	409	0	0	0	42	0	no	
Atlanta College of Art		X					X				388	0	388	0	0	0	72	0	no	
Berry College		X	X				X				2,038	0	1,846	0	192	0	159	0	no	
Brenau University	32,400	X	X				X				2,251	14	1,438	23	813	40	163	199	no	
Brewton-Parker College		X					X				1,219	0	1,219	0	0	0	142	0	no	
Clark Atlanta University	799,473	X	X				X		X		4,882	164	3,923	204	959	834	329	2,430	no	
Covenant College		X	X				X				1,245	0	1,179	0	66	0	110	0	no	
Dalton State College		X					X				3,641	0	3,641	0	0	0	140	0	no	
Emmanuel College		X					X				762	0	762	0	0	0	57	0	no	
Emory University	189,186,474	X	X	X		X	X				11,443	16,533	6,374	29,681	5,069	37,322	2,485	76,131	no	
<i>School of Medicine</i>	<i>140,494,101</i>																			
Institute of Paper Science & Technology	3,018,553	X	X				X				66	45,736	0	0	66	45,736	23	131,241	no	
LaGrange College		X	X				X				942	0	902	0	40	0	69	0	no	
Life University		X	X				DC	X			2,689	0	297	0	2,392	0	254	0	no	
Mercer University	1,702,047	X	X	X			X	X			7,315	233	4,740	359	2,575	661	595	2,861	no	
<i>School of Medicine</i>	<i>1,324,462</i>																			
Morehouse College	950,492	X					X		X		2,729	348	2,729	348	0	0	153	6,212	no	
Morehouse School of Medicine ^c	35,424,279	X	X				X	X	X		212	167,096	0	0	212	167,096	249	142,266	no	
<i>School of Medicine ^d</i>	<i>29,200,036</i>																			
Morris Brown College	119,069	X					X		X		2,874	41	2,874	41	0	0	195	611	no	
Oglethorpe University		X	X				X				1,197	0	1,114	0	83	0	55	0	no	
Paine College	87,015	X					X		X		888	98	888	98	0	0	78	1,116	no	
Piedmont College		X	X				X				1,728	0	1,026	0	702	0	99	0	no	
Reinhardt College		X					X				1,083	0	1,083	0	0	0	106	0	no	
Savannah College of Art & Design		X	X				X				5,338	0	4,707	0	631	0	286	0	no	
Shorter College		X	X				X				2,253	0	2,201	0	52	0	177	0	no	
South University		X					X				535	0	535	0	0	0	50	0	no	
Spelman College	4,481,609	X					X		X		2,138	2,096	2,138	2,096	0	0	202	22,186	no	
Thomas University		X	X				X				642	0	561	0	81	0	59	0	no	
Toccoa Falls College		X					X				916	0	916	0	0	0	75	0	no	
University System of Georgia																				
Albany State University		X	X				X		X		3,456	0	3,015	0	441	0	211	0	no	
Armstrong Atlantic State University		X	X				X				5,747	0	5,061	0	686	0	208	0	no	
Augusta State University		X	X				X				5,382	0	4,680	0	702	0	265	0	no	
Clayton College & State University		X					X				4,674	0	4,674	0	0	0	275	0	no	
Columbus State University	17,462	X	X				X				5,515	3	4,618	4	897	19	346	50	no	
Fort Valley State University	2,623,199	X	X				X		1890	X	2,485	1,056	2,198	1,193	287	9,140	188	13,953	no	
Georgia College & State University		X	X				X				5,079	0	4,083	0	996	0	325	0	no	
Georgia Institute of Technology	106,881,077	X	X	X			X				15,575	6,862	11,043	9,679	4,532	23,584	997	107,203	no	
Georgia Southern University	1,048,239	X	X	X			X				14,371	73	12,798	82	1,573	666	720	1,456	no	
Georgia Southwestern State University		X	X				X				2,535	0	1,947	0	588	0	144	0	no	
Georgia State University	15,294,751	X	X	X			X				25,743	594	18,241	838	7,502	2,039	1,417	10,794	no	
Kennesaw State University	360,358	X	X				X				13,940	26	12,421	29	1,519	237	680	530	no	
Macon State College	400,000	X					X				4,485	89	4,485	89	0	0	209	1,914	no	

GEORGIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University System of Georgia (cont.)																			
Medical College of Georgia <i>School of Medicine</i> ^a	26,130,432 25,405,660	X	X	X	X		X				1,939	13,476	669	39,059	1,270	20,575	651	40,139	no
North Georgia College & State University	110,000	X	X				X				3,858	29	3,426	32	432	255	236	466	no
Savannah State University	1,294,378	X	X				X		X		2,269	570	2,163	598	106	12,211	144	8,989	no
Southern Polytechnic State University	420,562	X	X				X				3,552	118	2,962	142	590	713	212	1,984	no
State University of West Georgia	125,450	X	X	X			X				9,026	14	7,240	17	1,786	70	442	284	no
University of Georgia	90,673,538	X	X	X	X		X		X		32,317	2,806	24,829	3,652	7,488	12,109	2,798	32,407	no
Valdosta State University	21,609	X	X	X			X				9,230	2	7,931	3	1,299	17	501	43	no
Wesleyan College	0	X	X				X				716	0	668	0	48	0	74	0	no
^a Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^b Enrollment information from Peterson's. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^c Morehouse School of Medicine became independent of Morehouse College in 1981.																			
^d The Morehouse School of Medicine consists of the Doctor of Medicine Program, Master of Public Health Program, Master of Science in Clinical Research Program, and Doctor of Philosophy in Biomedical Sciences Program, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Morehouse School of Medicine on the line above.																			
^e The Medical College of Georgia consists of the School of Medicine and the Schools of Allied Health Sciences, Graduate Studies, Dentistry, and Nursing, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Medical College of Georgia on the line above.																			

HAWAII Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Brigham Young University-Hawaii	0	X				X				2,278	0	2,278	0	0	0	190	0	no	
Chaminade University	0	X	X			X				2,561	0	1,976	0	585	0	166	0	no	
Hawaii Pacific University	0	X	X			X				8,033	0	6,759	0	1,274	0	869	0	no	
University of Hawaii System																			
Hilo	13,122,079	X	X			X				2,913	4,505	2,724	4,817	189	69,429	249	52,699	no	
Manoa	120,815,130	X	X	X	X	X	X			17,532	6,891	12,054	10,023	5,478	22,055	2,337	51,697	no	
School of Medicine	10,418,793																		
West Oahu	0	X				X				740	0	740	0	0	0	49	0	no	

IDAHO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Albertson College of Idaho	0	X	X				X				778	0	778	0	0	0	120	0	no
Boise State University	1,799,798	X	X	X				X			17,100	105	15,486	116	1,614	1,115	539	3,339	no
Brigham Young University-Idaho	0	X					X				9,200	0	9,200	0	0	0	453	0	no
Idaho State University	3,083,134	X	X	X				X			13,663	226	11,167	276	2,496	1,235	638	4,832	no
Lewis-Clark State College	0	X						X			2,953	0	2,953	0	0	0	214	0	no
Northwest Nazarene College	0	X	X				X				1,370	0	1,096	0	274	0	116	0	no
University of Idaho	29,150,447	X	X	X				X	X		12,067	2,416	9,081	3,210	2,986	9,762	889	32,790	no

ILLINOIS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PHD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Augustana College	115,011	X				X				2,232	52	2,232	52	0	0	209	550	no	
Aurora University	0	X	X	X		X				2,801	0	1,323	0	1,478	0	113	0	no	
Barat College ^a	0	X	X			X				652	0	571	0	81	0	41	0	no	
Benedictine University	216,689	X	X	X		X				2,700	80	1,986	109	714	303	96	2,257	no	
Blackburn College	0	X				X				571	0	571	0	0	0	52	0	no	
Bradley University	317,660	X	X			X				5,996	53	5,167	61	829	383	496	640	no	
The Chicago School of Professional Psychology	0		X	X		X				391	0	0	0	391	0	20	0	no	
Chicago State University	1,907,774	X	X			X	X	X		7,079	269	5,140	371	1,939	984	439	4,346	no	
Columbia College	258,768	X	X			X				9,416	27	8,911	29	505	512	1,166	222	no	
Concordia University-River Forest	0	X	X	X		X				1,947	0	1,358	0	589	0	88	0	no	
DePaul University	2,935,598	X	X	X		X				21,363	137	13,020	225	8,343	352	1,347	2,179	no	
DeVry University DuPage-Addison	0	X				X				3,543	0	3,543	0	0	0	165	0	no	
DeVry University-Chicago	0	X				X				4,011	0	4,011	0	0	0	189	0	no	
DeVry University-Tinley Park	0	X				X				1,662	0	1,662	0	0	0	83	0	no	
Dominican University	0	X	X			X				2,533	0	1,189	0	1,344	0	219	0	no	
East-West University	0	X				X				1,076	0	1,076	0	0	0	77	0	no	
Eastern Illinois University	620,479	X	X			X	X			10,531	59	9,115	68	1,416	438	637	974	no	
Elmhurst College	0	X	X			X				2,540	0	2,410	0	130	0	112	0	no	
Erikson Institute	0	X				X				147	0	0	0	147	0	17	0	no	
Eureka College	0	X				X				514	0	514	0	0	0	65	0	no	
Finch University of Health Sciences/ The Chicago Medical School ^b <i>School of Medicine</i> ^c	6,288,512 5,903,512	X	X	X		X	X			1,349	4,662	6	1,048,085	1,343	4,682	136	46,239	no	
Governors State University	0	X	X			X	X			5,860	0	2,980	0	2,880	0	407	0	no	
Greenville College	0	X	X			X				1,160	0	1,126	0	34	0	93	0	no	
Illinois College	0	X				X				874	0	874	0	0	0	89	0	no	
Illinois College of Optometry	0	X			OPT	X				635	0	0	0	635	0	70	0	no	
Illinois Institute of Technology	27,563,805	X	X	X		X				6,050	4,556	1,842	14,964	4,208	6,550	447	61,664	no	
Illinois State University	2,462,575	X	X	X		X	X			21,240	116	18,472	133	2,768	890	1,149	2,143	no	
Illinois Wesleyan University	115,904	X				X				2,064	56	2,064	56	0	0	296	392	no	
Judson College	63,575	X	X			X				1,085	59	1,085	59	0	0	169	376	no	
Kendall College	0	X				X				625	0	625	0	0	0	28	0	no	
Knox College	147,563	X				X				1,143	129	1,143	129	0	0	113	1,306	no	
Lake Forest College	0	X	X			X				1,277	0	1,260	0	17	0	126	0	no	
Lakeview College of Nursing	0	X				X				56	0	56	0	0	0	13	0	no	
Lewis University	0	X	X			X				4,407	0	3,383	0	1,024	0	152	0	no	
Lincoln Christian College & Seminary	0	X	X			X				909	0	670	0	239	0	79	0	no	
Loyola University Chicago <i>School of Medicine</i>	26,043,383 25,096,368	X	X	X		X	X			13,019	2,000	7,497	3,474	5,522	4,716	1,886	13,809	no	
Lutheran School of Theology at Chicago	0	X	X			X				353	0	0	0	353	0	24	0	no	
MacMurray College	0	X				X				655	0	655	0	0	0	85	0	no	
McKendree College	0	X				X				2,107	0	2,107	0	0	0	181	0	no	
Midstate College	100,000	X				X				303	330	303	330	0	0		0	no	
Midwestern University	356,965	X	X		DO	X				1,483	241	352	1,014	1,131	316	94	3,798	no	
Millikin University	200,000	X	X			X				2,412	83	2,389	84	23	8,696	316	633	no	
Monmouth College	0	X				X				1,072	0	1,072	0	0	0	99	0	no	
Moody Bible Institute ^d	0	X	X			X				1,603	0	1,333	0	270	0	101	0	no	
National University of Health Sciences ^e	0	X			DC	X				649	0	125	0	524	0	57	0	no	

ILLINOIS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
National-Louis University		0	X	X	X		X			7,879	0	3,303	0	4,576	0	298	0	no	
North Central College		0	X	X			X			2,605	0	2,162	0	443	0	185	0	no	
North Park University		0	X	X			X			2,327	0	1,573	0	754	0	263	0	no	
Northeastern Illinois University	85,000	X	X					X		10,999	8	8,382	10	2,617	32	386	220	no	
Northern Illinois University	7,338,517	X	X	X			X			23,783	309	17,468	420	6,315	1,162	1,180	6,219	no	
Northwestern University	161,234,045	X	X	X		X	X			17,000	9,484	9,167	17,589	7,833	20,584	2,447	65,890	no	
<i>School of Medicine</i>	92,415,757																		
Olivet Nazarene University		0	X	X			X			3,350	0	2,061	0	1,289	0	166	0	no	
Principia College		0	X				X			558	0	558	0	0	0	68	0	no	
Quincy University		0	X	X			X			1,319	0	1,147	0	172	0	104	0	no	
Robert Morris College		0	X				X			5,319	0	5,319	0	0	0	390	0	no	
Rockford College		0	X	X			X			1,359	0	1,056	0	303	0	78	0	no	
Roosevelt University		0	X	X			X			7,490	0	4,628	0	2,862	0	210	0	no	
Rush University	46,929,666	X	X	X		X	X			1,268	37,011	148	317,092	1,120	41,901	774	60,633	no	
<i>School of Medicine</i>	46,929,666																		
Saint Anthony College of Nursing		0	X				X			77	0	77	0	0	0	12	0	no	
St. Xavier University		0	X	X			X			4,916	0	2,815	0	2,101	0	280	0	no	
School of the Art Institute of Chicago		0	X	X			X			2,675	0	2,148	0	527	0	652	0	no	
Shimer College		0	X				X			105	0	105	0	0	0	11	0	no	
Southern Illinois University System																			
Carbondale	9,367,005	X	X	X		X	X			21,598	434	16,802	557	4,796	1,953	1,586	5,906	no	
<i>School of Medicine</i>	4,795,536																		
Edwardsville	680,558	X	X				X			12,442	55	9,799	69	2,643	257	744	915	no	
Spertus Institute of Jewish Studies		0	X	X			X			291	0	0	0	291	0	40	0	no	
Trinity Christian College		0	X				X			973	0	973	0	0	0	108	0	no	
Trinity International University		0	X	X	X		X			2,054	0	894	0	1,160	0	177	0	no	
University of Chicago	172,475,309	X	X	X		X	X			12,883	13,388	4,075	42,325	8,808	19,582	2,773	62,198	Argonne National Laboratory	
<i>School of Medicine</i>	124,946,536																		
University of Illinois System																			
Chicago	142,885,797	X	X	X		X	X			24,955	5,726	15,887	8,994	9,068	15,757	3,014	47,407	no	
<i>School of Medicine</i>	64,936,955																		
Springfield		0	X	X	X		X			4,288	0	2,300	0	1,988	0	250	0	no	
Urbana-Champaign	206,263,136	X	X	X	X		X	X		39,291	5,250	28,746	7,175	10,545	19,560	3,158	65,314	no	
University of St. Francis		0	X	X			X			3,919	0	2,699	0	1,220	0	183	0	no	
Western Illinois University	545,285	X	X				X			13,206	41	10,755	51	2,451	222	684	797	no	
Wheaton College		0	X	X	X		X			2,844	0	2,386	0	458	0	295	0	no	

^a Faculty data from CollegeView.com.

^b Effective July 1, 2004, Finch University of Health Sciences/The Chicago Medical School will change its name to Rosalind Franklin University of Medicine and Science.

^c The Finch University of Health Sciences/The Chicago Medical School consists of the Chicago Medical School, the School of Graduate and Postdoctoral Studies, the School of Related Health Sciences, and the Dr. William M. Scholl College of Podiatric Medicine, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Finch University of Health Sciences/The Chicago Medical School on the line above.

^d Enrollment information from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^e Formerly the National College of Chiropractics.

INDIANA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD				Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Anderson University	0	X	X	X			X			2,427	0	2,094	0	333	0	231	0	no
Ball State University	2,189,515	X	X	X				X		18,965	115	16,313	134	2,652	826	953	2,297	no
Bethel College	0	X	X				X			1,660	0	1,541	0	119	0	115	0	no
Butler University	55,608	X	X				X			4,264	13	3,424	16	840	66	455	122	no
Calumet College of St Joseph	0	X	X				X			1,000	0	1,000	0	0	0	101	0	no
Christian Theological Seminary	0	X	X				X			280	0	0	0	280	0	31	0	no
Concordia Theological Seminary-Fort Wayne	0	X	X				X			401	0	0	0	401	0	28	0	no
DePauw University	241,877	X	X				X			2,219	109	2,219	109	0	0	248	975	no
Earlham College	337,593	X	X				X			1,145	295	1,078	313	67	5,039	94	3,591	no
Franklin College	0	X	X				X			1,028	0	1,028	0	0	0	97	0	no
Goshen College	0	X	X				X			986	0	986	0	0	0	150	0	no
Grace College	0	X	X	X			X			1,357	0	1,179	0	178	0	41	0	no
Hanover College	0	X	X				X			1,111	0	1,111	0	0	0	93	0	no
Holy Cross College	0	X	X				X			558	0	558	0	0	0	42	0	no
Huntington College	0	X	X				X			989	0	956	0	33	0	55	0	no
Indiana Institute of Technology	0	X	X				X			3,588	0	3,161	0	427	0	148	0	no
Indiana State University	1,017,692	X	X	X				X		11,321	90	9,734	105	1,587	641	663	1,535	no
Indiana University System																		
Bloomington	56,276,073	X	X	X		OPT	X			37,963	1,482	30,157	1,866	7,806	7,209	1,755	32,066	no
East (Richmond)	0	X	X				X			2,469	0	2,405	0	64	0	169	0	no
Kokomo	0	X	X				X			2,741	0	2,519	0	222	0	155	0	no
Northwest (Gary)	0	X	X				X			4,639	0	4,027	0	612	0	335	0	no
South Bend	0	X	X				X			7,417	0	6,070	0	1,347	0	518	0	no
Southeast (New Albany)	0	X	X				X			6,557	0	5,668	0	889	0	422	0	no
Indiana University/Purdue University at Fort Wayne	0	X	X				X			11,128	0	10,281	0	847	0	684	0	no
Indiana University/Purdue University at Indianapolis School of Medicine	95,879,375 88,137,186	X	X	X		X	X			28,339	3,383	20,695	4,633	7,644	12,543	2,597	36,919	no
Indiana Wesleyan University, Marion	0	X	X				X			7,929	0	5,721	0	2,208	0	1,003	0	no
Manchester College	0	X	X				X			1,137	0	1,120	0	17	0	70	0	no
Marian College	0	X	X				X			1,260	0	1,260	0	0	0	159	0	no
Martin University	0	X	X				X			536	0	473	0	63	0	59	0	no
Oakland City University	0	X	X	X			X			1,738	0	1,434	0	304	0	33	0	no
Purdue University																		
West Lafayette (main campus)	92,739,428	X	X	X	X		X	X		39,882	2,325	32,648	2,841	7,234	12,820	2,379	38,983	no
Calumet (Hammond)	0	X	X				X			9,103	0	8,120	0	983	0	457	0	no
North Central (Westville)	0	X	X				X			3,493	0	3,468	0	25	0	223	0	no
Rose-Hulman Institute of Technology	48,074	X	X				X			1,749	27	1,573	31	176	273	136	353	no
Saint Joseph's College	0	X	X				X			914	0	914	0	0	0	84	0	no
Saint Mary-of-the-Woods College	0	X	X				X			1,502	0	1,384	0	118	0	56	0	no
Saint Mary's College	0	X	X				X			1,523	0	1,523	0	0	0	188	0	no
Taylor University ^a	39,283	X	X				X			2,367	17	2,367	17	0	0	218	180	no
Tri-State University ^b	135,193	X	X				X			1,268	107	1,268	107	0	0	119	1,136	no
University of Evansville	0	X	X				X			2,555	0	2,542	0	13	0	175	0	no
University of Indianapolis ^c	0	X	X	X			X			3,708	0	2,859	0	849	0	160	0	no
University of Notre Dame	35,384,037	X	X	X			X			11,054	3,201	8,208	4,311	2,846	12,433	1,142	30,984	no
University of Saint Francis	500,000	X	X				X			1,683	297	1,484	337	199	2,513	97	5,155	no

INDIANA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of Southern Indiana	0	X	X				X			9,362	0	8,783	0	579	0	529	0	no	
Valparaiso University	162,579	X	X				X			3,533	46	2,873	57	660	246	317	513	no	
Wabash College	34,296	X					X			849	40	849	40	0	0	103	333	no	
* Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
* Listed as three separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
* Actual amount is a "de-obligation" of \$9,514.																			

IOWA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
Allen College		0	X	X			X				259	0	233	0	26	0	26	0	no	
Briar Cliff College		0	X	X			X				969	0	969	0	0	0	45	0	no	
Buena Vista University	1,000,000	X	X				X				2,910	344	2,810	356	100	10,000	82	12,195	no	
Central College	1,000,000	X					X				1,425	702	1,425	702	0	0	130	7,692	no	
Clarke College		0	X	X			X				1,201	0	1,052	0	149	0	98	0	no	
Coe College	55,000	X	X				X				1,311	42	1,280	43	31	1,774	156	353	no	
Cornell College		0	X				X				986	0	986	0	0	0	102	0	no	
Des Moines University-Osteopathic Medical Center		0	X	X		DO	X				1,177	0	67	0	1,110	0	7	0	no	
Divine Word College		0	X				X				76	0	76	0	0	0	20	0	no	
Dordt College		0	X	X			X				1,460	0	1,396	0	64	0	78	0	no	
Drake University	5,505	X	X	X			X				5,150	1	2,824	2	2,326	2	340	16	no	
Emmaus Bible College		0	X				X				284	0	284	0	0	0	17	0	no	
Faith Baptist Bible College & Theological Seminary		0	X	X			X				487	0	372	0	115	0	31	0	no	
Graceland College		0	X	X			X				2,523	0	2,283	0	240	0	83	0	no	
Grand View College		0	X				X				1,402	0	1,402	0	0	0	134	0	no	
Grinnell College	218,829	X					X				1,338	164	1,338	164	0	0	176	1,243	no	
Iowa State University	60,424,044	X	X	X	X		X	X			27,823	2,172	23,060	2,620	4,763	12,686	1,628	37,116	Ames Laboratory	
Iowa Wesleyan College		0	X				X				812	0	812	0	0	0	103	0	no	
Loras College		0	X	X			X				1,758	0	1,636	0	122	0	167	0	no	
Luther College	135,543	X					X				2,575	53	2,575	53	0	0	225	602	no	
Maharishi University of Management	2,417,044	X	X	X			X				806	2,999	231	10,463	575	4,204	75	32,227	no	
Marycrest International University		0	X	X			X				666	0	400	0	266	0	34	0	no	
Morningside College		0	X	X			X				996	0	850	0	146	0	114	0	no	
Mount Mercy College		0	X				X				1,387	0	1,387	0	0	0	117	0	no	
Mount St. Clare College ^a	1,000,000	X					X				479	2,088	479	2,088	58	17,241	53	18,868	no	
Northwestern College of Iowa	145,000	X					X				1,287	113	1,287	113	0	0	112	1,295	no	
Palmer College of Chiropractic	1,149,747	X	X			DC	X				1,727	666	62	18,544	1,665	691	86	13,369	no	
St. Ambrose University		0	X	X	X		X				3,291	0	2,271	0	1,020	0	269	0	no	
Simpson College		0	X				X				1,816	0	1,788	0	28	0	83	0	no	
University of Dubuque	800,000	X	X				X				1,039	770	759	1,054	280	2,857	39	20,513	no	
University of Iowa	176,503,090	X	X	X	X		X				28,768	6,135	19,603	9,004	9,165	19,258	2,341	75,396	no	
<i>School of Medicine</i>	120,338,303																			
University of Northern Iowa	1,627,451	X	X	X			X				14,410	113	12,680	128	1,730	941	846	1,924	no	
Upper Iowa University		0	X	X			X				4,557	0	4,422	0	135	0	310	0	no	
Vennard College		0	X				X				88	0	88	0	0	0	9	0	no	
Waldorf College		0	X				X				642	0	642	0	0	0	41	0	no	
Wartburg College		0	X				X				1,649	0	1,649	0	0	0	139	0	no	
William Penn College		0	X				X				1,547	0	1,547	0	0	0	37	0	no	

^a Mount St. Claire College became The Franciscan University on December 5, 2002.

KANSAS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted						Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM	MD	Number					Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Baker University ^a		0	X	X			X					2,919	0	1,903	0	1,016	0	477	0	no	
Barclay College		0	X				X					196	0	196	0	0	0	44	0	no	
Benedictine College		0	X	X			X					1,339	0	1,288	0	51	0	58	0	no	
Bethany College		0	X				X					604	0	604	0	0	0	66	0	no	
Bethel College		0	X				X					525	0	525	0	0	0	69	0	no	
Central Christian College		0	X				X					314	0	314	0	0	0	18	0	no	
Emporia State University	52,106	X	X	X				X				5,823	9	4,287	12	1,536	34	274	190	no	
Fort Hays State University	84,021	X	X				X					5,626	15	4,565	18	1,061	79	299	281	no	
Friends University		0	X	X			X					3,190	0	2,629	0	561	0	227	0	no	
Haskell Indian Nations University	162,000	X					X					967	168	967	168	0	0	58	2,793	no	
Kansas State University	29,309,846	X	X	X	X		X	X				22,396	1,309	18,770	1,562	3,626	8,083	1,375	21,316	no	
Kansas Wesleyan University		0	X	X			X					784	0	722	0	62	0	58	0	no	
Manhattan Christian College		0	X				X					412	0	412	0	0	0	26	0	no	
McPherson College		0	X				X					397	0	397	0	0	0	49	0	no	
Mid-America Nazarene College		0	X	X			X					1,683	0	1,290	0	393	0	135	0	no	
Newman University		0	X	X			X					2,071	0	1,660	0	411	0	65	0	no	
Ottawa University ^b		0	X	X			X					1,709	0	953	0	756	0	45	0	no	
Pittsburg State University	663,915	X	X					X				6,723	99	5,471	121	1,252	530	365	1,819	no	
Saint Mary College		0	X	X			X					772	0	484	0	288	0	50	0	no	
Southwestern College		0	X	X			X					1,276	0	1,177	0	99	0	121	0	no	
Sterling College		0	X				X					461	0	461	0	0	0	34	0	no	
Tabor College		0	X	X			X					592	0	571	0	21	0	72	0	no	
University of Kansas	45,758,948	X	X	X				X				25,782	1,775	19,651	2,329	6,131	7,464	1,552	29,484	no	
University of Kansas Medical Center <i>School of Medicine</i> ^c	41,273,167 36,588,814	X	X	X		X	X	X				2,408	17,140	409	100,912	1,999	20,647	739	55,850	no	
Washburn University		0	X	X			X					6,118	0	5,098	0	1,020	0	456	0	no	
Wichita State University	2,149,610	X	X	X			X					14,854	145	11,303	190	3,551	605	783	2,745	no	

^a Listed as three separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^b Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^c The University of Kansas Medical Center consists of the Schools of Allied Health, Medicine, Nursing and Graduate Studies, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the University of Kansas Medical Center on the line above. Information from <http://www.kumc.edu/>.

KENTUCKY Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BVS	MA/MS	PHD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Alice Lloyd College		0	X				X			565	0	565	0	0	0	52	0	no	
Asbury College		0	X	X			X			1,352	0	1,328	0	24	0	144	0	no	
Asbury Theological Seminary		0	X	X			X			1,414	0	0	0	1,414	0	106	0	no	
Bellarmino College		0	X	X			X			2,982	0	2,470	0	512	0	235	0	no	
Berea College		0	X				X			1,673	0	1,673	0	0	0	153	0	no	
Brescia University		0	X	X			X			791	0	756	0	35	0	59	0	no	
Campbellsville University		0	X	X			X			1,777	0	1,630	0	147	0	140	0	no	
Centre College		0	X				X			1,070	0	1,070	0	0	0	90	0	no	
Clear Creek Baptist Bible College		0	X				X			198	0	198	0	0	0	18	0	no	
Cumberland College		0	X	X			X			1,704	0	1,566	0	138	0	98	0	no	
Eastern Kentucky University		0	X	X			X			14,945	0	13,052	0	1,893	0	982	0	no	
Georgetown College		0	X	X			X			1,703	0	1,361	0	342	0	139	0	no	
Kentucky Christian College		0	X	X			X			592	0	576	0	16	0	49	0	no	
Kentucky Mountain Bible College		0	X				X			82	0	82	0	0	0	36	0	no	
Kentucky State University	2,826,843	X	X				X	1890	X	2,313	1,222	2,165	1,306	148	19,100	181	15,618	no	
Kentucky Wesleyan College		0	X				X			671	0	671	0	0	0	71	0	no	
Lindsey Wilson College		0	X	X			X			1,301	0	1,254	0	47	0	85	0	no	
Mid-Continent College		0	X				X			653	0	653	0	0	0	80	0	no	
Midway College		0	X				X			874	0	874	0	0	0	72	0	no	
Morehead State University	630,625	X	X				X			9,008	70	7,249	87	1,759	359	468	1,347	no	
Murray State University	1,561,660	X	X				X			9,635	162	7,763	201	1,872	834	405	3,856	no	
Northern Kentucky University	1,343,797	X	X				X			12,530	107	11,269	119	1,261	1,066	896	1,500	no	
Pikeville College		0	X			DO	X			1,194	0	948	0	246	0	91	0	no	
Simmons University Bible College ^a		0	X				X		X	103	0	103	0	0	0	18	0	no	
Southern Baptist Theological Seminary ^b		0	X	X	X		X			2,320	0	705	0	1,615	0	66	0	no	
Spalding University		0	X	X	X		X			1,670	0	1,088	0	582	0	153	0	no	
Sullivan University		0	X	X			X			4,402	0	4,229	0	173	0	185	0	no	
Thomas More College		0	X	X			X			1,555	0	1,422	0	133	0	123	0	no	
Transylvania University		0	X				X			1,052	0	1,052	0	0	0	100	0	no	
Union College		0	X	X			X			847	0	576	0	271	0	73	0	no	
University of Kentucky	105,092,273	X	X	X			X	X		23,901	4,397	17,137	6,132	6,764	15,537	2,340	44,911	no	
<i>School of Medicine</i>	<i>53,986,489</i>																		
University of Louisville	36,523,328	X	X	X			X			19,682	1,856	14,109	2,589	5,573	6,554	1,811	20,167	no	
<i>School of Medicine</i>	<i>27,405,491</i>																		
Western Kentucky University	1,743,664	X	X	X			X			16,552	105	14,113	124	2,439	715	1,008	1,730	no	

^a Student enrollment data from Peterson's Black American Colleges and Universities <http://www.petersons.com/blackcolleges/profiles/simmons.asp?sponsor=13>. Faculty data from Simmons University Bible College website <http://www.sbcollege.edu/administration/president/>.

^b Faculty data from CollegeView.com.

LOUISIANA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BBS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Centenary College of Louisiana	0	X	X				X				1,049	0	910	0	139	0	121	0	no
Dillard University	34,000	X	X				X		X		2,137	16	2,137	16	0	0	185	184	no
Grambling State University	778,111	X	X	X				X		X	4,500	173	4,052	192	448	1,737	250	3,112	no
Louisiana College	0	X					X				1,204	0	1,204	0	0	0	68	0	no
Louisiana State University System																			
Baton Rouge	44,981,609	X	X	X	X			X	X		32,059	1,403	26,518	1,696	5,541	8,118	1,415	31,789	no
Health Sciences Center	31,440,681	X	X	X		X		X			2,638	11,918	746	42,146	1,892	16,618	1,435	21,910	no
Medical School New Orleans ^a	20,700,295																		
Medical School Shreveport ^b	10,535,566																		
Shreveport	24,500	X	X					X			4,113	6	3,419	7	694	35	221	111	no
University of New Orleans	7,214,778	X	X	X				X			17,014	424	12,967	556	4,047	1,783	780	9,250	no
Louisiana Tech University	8,034,083	X	X	X				X			10,694	751	9,060	887	1,634	4,917	437	18,385	no
Loyola University New Orleans	101,310	X	X				X				5,509	18	3,792	27	1,717	59	263	385	no
McNeese State University	0	X	X					X			7,780	0	6,845	0	935	0	283	0	no
Nicholls State University	1,263,512	X	X					X			7,188	176	6,534	193	654	1,932	275	4,595	no
Northwestern State University of Louisiana	20,000	X	X					X			9,415	2	8,373	2	1,042	19	476	42	no
Our Lady of Holy Cross College	0	X	X				X				1,347	0	1,250	0	97	0	27	0	no
Our Lady of the Lake College	0	X					X				1,219	0	1,219	0	0	0	154	0	no
Southeastern Louisiana University	1,165,123	X	X					X			14,506	80	12,817	91	1,689	690	667	1,747	no
Southern University System																			
Southern University & A&M College (Baton Rouge)	3,559,364	X	X	X				X	1890	X	9,035	394	7,472	476	1,563	2,277	611	5,825	no
New Orleans	0	X	X					X		X	3,741	0	3,084	0	657	0	225	0	no
Tulane University	59,745,952	X	X	X		X	X				11,825	5,053	7,479	7,988	4,346	13,747	1,233	48,456	no
Medical School	24,433,394																		
University of Louisiana																			
Lafayette	4,895,261	X	X	X				X			15,489	316	13,913	352	1,576	3,106	672	7,285	no
Monroe	433,606	X	X	X				X			8,762	49	7,445	58	1,317	329	485	894	no
Xavier University of Louisiana	14,555,679	X	X				X			X	3,912	3,721	3,340	4,358	572	25,447	253	57,532	no

NOTE: The amounts above do not reflect all or part of several Project Grants and one Cooperative Agreement totalling \$1,369,363 that were awarded to the Louisiana Universities Marine Consortium (LUMCON), which is an organization comprised of virtually every public and private higher education institution in Louisiana.

^a The Louisiana State University System Health Sciences Center in New Orleans consists of the School of Medicine and the Schools of Allied Health, Dentistry, Graduate Studies, and Nursing, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Louisiana State University System Health Sciences Center on the line above.

^b The Louisiana State University System Health Sciences Center in Shreveport consists of the School of Medicine and the Schools of Allied Health, and Graduate Studies, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Louisiana State University System Health Sciences Center on the line above.

MAINE Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Bates College	576,406	X					X				1,767	326	1,767	326	0	0	191	3,018	no		
Bowdoin College	279,771	X					X				1,635	171	1,635	171	0	0	183	1,529	no		
Colby College	197,222	X					X				1,809	109	1,809	109	0	0	214	922	no		
College of the Atlantic	186,695	X	X				X				271	689	269	694	2	93,348	27	6,915	no		
Husson College	0	X	X				X				1,864	0	1,602	0	262	0	54	0	no		
Maine College of Art	0	X	X				X				461	0	435	0	26	0	36	0	no		
Maine Maritime Academy	0	X	X					X			727	0	713	0	14	0	63	0	no		
St Joseph's College	0	X	X				X				5,270	0	3,561	0	1,709	0	221	0	no		
Thomas College	0	X	X				X				779	0	665	0	114	0	36	0	no		
Unity College	0	X					X				501	0	501	0	0	0	62	0	no		
University of Maine System																					
Augusta	0	X					X				5,575	0	5,575	0	0	0	253	0	no		
Administrative Offices (Bangor)	4,600,663										The Administrative Offices of the University of Maine System.										
Farmington	127,330	X					X				2,435	52	2,435	52	0	0	169	753	no		
Fort Kent	0	X					X				897	0	897	0	0	0	65	0	no		
Machias	289,869	X					X				1,017	285	1,017	285	0	0	68	4,263	no		
Orono (main campus) *	10,957,955	X	X	X			X	X			10,698	1,024	8,511	1,288	2,187	5,010	730	15,011	no		
Presque Isle	0	X					X				1,367	0	1,367	0	0	0	104	0	no		
University of Southern Maine	2,732,973	X	X	X			X				10,966	249	8,831	309	2,135	1,280	685	3,990	no		
University of New England	354,833	X	X			DO	X				2,837	125	1,389	255	1,448	245	210	1,690	no		

* Includes Bangor.

MARYLAND Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BABS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Baltimore Hebrew University	0	X	X	X			X			164	0	108	0	56	0	38	0	no	
Baltimore International College	0	X					X			483	0	483	0	0	0	12	0	no	
Bowie State University	3,996,143	X	X	X			X		X	5,181	771	3,542	1,128	1,639	2,438	308	12,974	no	
Capitol College	462,010	X	X				X			800	578	629	735	171	2,702	74	6,243	no	
College of Notre Dame of Maryland	0	X	X				X			3,072	0	1,850	0	1,222	0	250	0	no	
Columbia Union College	0	X	X				X			1,073	0	1,069	0	4	0	51	0	no	
Coppin State College	15,000	X	X				X		X	4,032	4	3,268	5	764	20	196	77	no	
Goucher College	105,910	X	X				X			1,996	53	1,221	87	775	137	154	688	no	
Frostburg State University	0	X	X				X			5,283	0	4,354	0	929	0	346	0	no	
Hood College	13,855	X	X				X			1,607	9	784	18	823	17	181	77	no	
Johns Hopkins University	968,346,779	X	X	X		X	X			17,826	54,322	5,370	180,325	12,456	77,741	2,745	352,767	no	
<i>Medical School</i>	364,493,858																		
Loyola College	68,324	X	X	X			X			6,144	11	3,477	20	2,667	26	509	134	no	
Maryland Institute, College of Art	0	X	X				X			1,798	0	1,653	0	145	0	251	0	no	
McDaniel College ^a	0	X	X				X			3,124	0	1,641	0	1,483	0	195	0	no	
Morgan State University	7,904,435	X	X	X			X		X	6,498	1,216	5,974	1,323	524	15,085	450	17,565	no	
Mount Saint Mary's College	0	X	X				X			1,969	0	1,542	0	427	0	179	0	no	
St John's College-Annapolis	0	X	X				X			538	0	472	0	66	0	78	0	no	
St Mary's College of Maryland	286,552	X	X				X			1,688	170	1,688	170	0	0	127	2,256	no	
Salisbury State University	7,500	X	X				X		X	6,682	1	6,060	1	622	12	454	17	no	
Soujourner-Douglass College	67,000	X	X				X		X	845	79	845	79	0	0	126	532	no	
Towson University	430,608	X	X	X			X			16,980	25	13,959	31	3,021	143	1,219	353	no	
The Uniformed Services University of the Health Sciences ^b	100,000	X	X	X		X	X			819	122	0	0	819	122	270	370	no	
<i>Medical School</i> ^c	0																		
United States Naval Academy	38,000	X					X			4,297	9	4,297	9	0	0	356	107	no	
University of Baltimore	209,810	X	X	X			X			4,639	45	1,993	105	2,646	79	166	1,264	no	
University of Maryland																			
Baltimore	128,207,993	X	X	X		X	X			5,476	23,413	817	156,925	4,659	27,518	1,557	82,343	no	
<i>Medical School</i>	96,112,532																		
Baltimore County	35,169,875	X	X	X			X			11,237	3,130	9,328	3,770	1,909	18,423	934	37,655	no	
Biotechnology Institute	16,881,270									Research Institute Only, so no degrees awarded.									no
Center for Environmental Science ^d	4,651,000									Research Institute Only, so no degrees awarded.									no
College Park	134,507,747	X	X	X			X	X		34,160	3,388	25,099	4,611	9,061	12,773	3,591	32,229	no	
Eastern Shore	1,914,127	X	X	X			X		X	3,295	581	2,967	645	328	5,836	202	9,476	no	
University College	0	X	X	X			X			22,233	844	16,062	1,169	6,171	3,042	962	19,514	no	
Washington Bible College	0	X	X				X			599	0	331	0	268	0	53	0	no	
Washington College	0	X	X				X			1,260	0	1,208	0	52	0	110	0	no	
Villa Julie College	0	X	X				X			2,447	0	2,376	0	71	0	278	0	no	

^a Enrollment information from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^b Enrollment and Faculty information from collegeview.com. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^c The Uniformed Services University of the Health Sciences consists of the School of Medicine, the Graduate Education Program, and the Graduate School of Nursing, all of which are eligible to receive federal R&D funds. Since the federal R&D funds going to the Uniformed Services University of the Health Sciences did not go to the School of Medicine, no funds are specified here.

^d The University of Maryland Center for Environmental Science is home to the Maryland Sea Grant College and consists of three laboratories -- the Appalachian Laboratory in Frostburg, Chesapeake Biological Laboratory in Solomons, and Horn Point Laboratory in Cambridge.

MASSACHUSETTS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
American International College	0	X	X	X			X				1,515	0	1,074	0	441	0	211	0	no	
Amherst College	1,053,705	X					X				1,640	643	1,640	643	0	0	197	5,349	no	
Anna Maria College	0	X	X				X				1,264	0	832	0	432	0	34	0	no	
Assumption College	635,100	X	X				X				2,779	229	2,458	258	321	1,979	247	2,571	no	
Atlantic Union College	0	X	X				X				715	0	633	0	82	0	65	0	no	
Babson College	0	X	X				X				3,328	0	1,719	0	1,609	0	225	0	no	
Bay Path College	0	X	X				X				979	0	917	0	62	0	104	0	no	
Becker College	0	X					X				1,412	0	1,412	0	0	0	96	0	no	
Benjamin Franklin Institute of Technology	0	X						X			318	0	318	0	0	0	35	0	no	
Bentley College	89,563	X	X				X				5,587	16	4,256	21	1,331	67	444	202	no	
Berklee College of Music	0	X					X				3,415	0	3,415	0	0	0	449	0	no	
Boston College	16,079,933	X	X	X			X				14,308	1,124	9,797	1,641	4,511	3,565	636	25,283	no	
Boston Conservatory	0	X	X				X				510	0	373	0	137	0	46	0	no	
Boston Graduate School of Psychoanalysis ^a	0	X	X				X				133	0	0	0	133	0	41	0	no	
Boston University	175,652,126	X	X	X		X	X				27,756	6,328	17,602	9,979	10,154	17,299	3,385	51,891	no	
<i>School of Medicine</i>	<i>97,938,833</i>																			
Brandeis University	27,493,664	X	X	X			X				4,882	5,632	3,081	8,924	1,801	15,266	438	62,771	no	
Bridgewater State College	297,805	X	X					X			9,038	33	7,199	41	1,839	162	541	550	no	
Cambridge College	0	X	X				X				2,863	0	387	0	2,476	0	218	0	no	
Clark University	2,113,246	X	X	X			X				2,955	715	2,138	988	817	2,587	373	5,666	no	
College of the Holy Cross	138,975	X					X				2,811	49	2,811	49	0	0	256	543	no	
Concord School of Management ^b	0	X					X				80	0	0	0	80	0	38	0	no	
Curry College	0	X	X				X				2,349	0	2,242	0	107	0	395	0	no	
Dean College	0	X					X				1,402	0	1,402	0	0	0	113	0	no	
Eastern Nazarene College	0	X	X				X				1,214	0	1,061	0	153	0	44	0	no	
Elms College	0	X	X				X				719	0	630	0	89	0	49	0	no	
Emerson College	1,000,000	X	X	X			X				4,339	230	3,412	293	927	1,079	356	2,809	no	
Emmanuel College	850,000	X	X				X				1,449	587	1,305	651	144	5,903	52	16,346	no	
Endicott College	0	X	X				X				1,754	0	1,510	0	244	0	139	0	no	
Fitchburg State College	0	X	X					X			5,024	0	3,215	0	1,809	0	474	0	no	
Framingham State College	0	X	X					X			5,903	0	4,033	0	1,870	0	163	0	no	
Gordon College	0	X	X				X				1,694	0	1,624	0	70	0	136	0	no	
Gordon-Conwell Theological Seminary	0	X	X				X				1,608	0	0	0	1,608	0	33	0	no	
Hampshire College	853,405	X					X				1,219	700	1,219	700	0	0	101	8,450	no	
Harvard University	332,530,435	X	X	X		X	X				24,474	13,587	9,637	34,506	14,837	22,412	2,463	135,010	no	
<i>School of Medicine</i>	<i>139,790,964</i>																			
Lasell College	0	X	X				X				894	0	894	0	0	0	125	0	no	
Lesley College	999,679	X	X	X			X				6,358	157	1,727	579	4,631	216	149	6,709	no	
Massachusetts College of Art	0	X	X					X			2,250	0	2,140	0	110	0	228	0	no	
Massachusetts College of Liberal Arts	0	X	X					X			1,613	0	1,401	0	212	0	112	0	no	
Massachusetts College of Pharmacy & Health Sciences	309,960	X	X	X			X				1,907	163	1,165	266	742	418	200	1,550	no	
Massachusetts Institute of Technology	380,832,879	X	X	X			X				10,197	37,348	4,213	90,395	5,984	63,642	1,101	345,897	Lincoln Laboratory	
Massachusetts Maritime Academy	0	X						X			853	0	853	0	0	0	73	0	no	
Massachusetts School of Professional Psychology	0			X			X				150	0	0	0	150	0	35	0	no	
Merrimack College	0	X	X				X				2,484	0	2,460	0	24	0	214	0	no	

MASSACHUSETTS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PhD	DVM	MD					OPT	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Mount Holyoke College	720,253	X	X				X				2,038	353	2,037	354	1	720,253	291	2,475	no	
Mount Ida College	0	X					X				1,325	0	1,325	0	0	0	54	0	no	
New England College of Optometry	2,032,738										422	4,817	0	0	422	4,817	71	28,630	no	
New England Conservatory of Music	0	X	X	X			X				772	0	381	0	391	0	204	0	no	
Newbury College	0	X					X				1,689	0	1,689	0	0	0	89	0	no	
Nichols College	0	X	X				X				1,545	0	1,297	0	248	0	109	0	no	
Northeastern University	23,916,696	X	X	X			X				23,422	1,021	19,205	1,245	4,217	5,671	1,719	13,913	no	
Olin College ^c	533,655	X					X				600	889	600	889	0	0	29	18,402	no	
Pine Manor College	0	X	X				X				406	0	406	0	0	0	54	0	no	
Regis College	0	X	X				X				1,081	0	851	0	230	0	199	0	no	
Salem State College	0	X	X					X			8,349	0	6,317	0	2,032	0	533	0	no	
Simmons College	700,234	X	X	X			X				3,299	212	1,275	549	2,024	346	321	2,181	no	
Simon's Rock College	0	X					X				401	0	401	0	0	0	61	0	no	
Smith College	794,103	X	X	X			X				3,113	255	2,665	298	448	1,773	399	1,990	no	
Springfield College	85,068	X	X	X			X				5,007	17	3,587	24	1,420	60	562	151	no	
Stonehill College	0	X	X				X				2,622	0	2,613	0	9	0	231	0	no	
Suffolk University	750,000	X	X	X			X				6,897	109	3,437	218	3,460	217	643	1,166	no	
Tufts University	56,197,903	X	X	X	X	X	X				9,082	6,188	4,775	11,769	4,307	13,048	1,129	49,777	no	
<i>School of Medicine</i>	42,902,847																			
University of Massachusetts System																				
Amherst	55,792,193	X	X	X			X	X			24,678	2,261	19,368	2,881	5,310	10,507	1,471	37,928	no	
Boston	5,764,416	X	X	X			X				13,348	432	10,565	546	2,783	2,071	885	6,513	no	
Dartmouth	5,634,199	X	X	X			X				7,460	755	6,638	849	822	6,854	495	11,382	no	
Lowell	6,008,508	X	X	X			X				12,397	485	9,650	623	2,747	2,187	785	7,654	no	
Medical School at Worcester	91,766,651	X	X	X	X	X	X				686	133,771	0	0	686	133,771	915	100,291	no	
<i>School of Medicine^d</i>	89,185,560																			
Wellesley College	777,718	X					X				2,273	342	2,273	342	0	0	380	2,047	no	
Wentworth Institute of Technology	0	X					X				3,273	0	3,273	0	0	0	127	0	no	
Western New England College	25,286	X	X				X				4,556	6	3,094	8	1,462	17	154	164	no	
Westfield State College	0	X	X					X			5,153	0	4,378	0	775	0	279	0	no	
Weston Jesuit School of Theology	0	X	X				X				199	0	0	0	199	0	29	0	no	
Wheaton College	0	X					X				1,551	0	1,551	0	0	0	150	0	no	
Wheelock College	0	X	X				X				1,090	0	616	0	474	0	213	0	no	
Williams College	516,256	X	X				X				2,048	252	1,997	259	51	10,123	314	1,644	no	
Worcester Polytechnic Institute	2,942,863	X	X	X			X				3,887	757	2,823	1,042	1,064	2,766	331	8,891	no	
Worcester State College	0	X	X					X			5,768	0	4,915	0	853	0	241	0	no	

NOTE: The amounts above do not reflect all or part of a Project Grant totalling \$1,114,383 that was awarded to a consortium of Amherst, Hampshire, Mount Holyoke, and Smith Colleges, and the University of Massachusetts Amherst.

^a Faculty information from <http://www.bgsp.edu>.

^b All information from <http://www.concordsom.com/info>.

MASSACHUSETTS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		B/BS	M/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
^c Olin College admitted its first class of students in the fall of 2002. Information on enrollment from http://www.olin.edu/about_olin/overview.asp and faculty from http://www.olin.edu/faculty_staff/faculty_profiles.asp .																			
^d The University of Massachusetts System's Medical School at Worcester consists of the School of Medicine, the Graduate School of Biomedical Sciences, and the Graduate School of Nursing, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Medical School at Worcester on the line above.																			

MICHIGAN Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PHD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Adrian College	0	X				X				1,054	0	1,054	0	0	122	0	no		
Albion College	0	X				X				1,546	0	1,546	0	0	121	0	no		
Alma College	11,700	X				X				1,371	9	1,371	9	0	127	92	no		
Andrews University	25,000	X	X	X		X				2,721	9	1,643	15	1,078	23	317	79	no	
Aquinas College	0	X	X			X				2,571	0	2,016	0	555	0	202	0	no	
Baker College *	0	X	X			X				20,956	0	20,016	0	940	0	1070	0	no	
Calvin College	266,440	X	X			X				4,258	63	4,221	63	37	7,201	364	732	no	
Central Michigan University	473,775	X	X	X			X			27,797	17	19,530	24	8,267	57	1,197	396	no	
Cleary College	0	X	X			X				632	0	557	0	75	0	78	0	no	
College for Creative Studies	0	X	X			X				1,152	0	1,152	0	0	0	200	0	no	
Concordia College-Ann Arbor	0	X	X			X				568	0	533	0	35	0	73	0	no	
Cornerstone University	0	X	X			X				1,941	0	1,716	0	225	0	65	0	no	
Davenport University *	0	X	X			X				12,610	0	12,114	0	496	0	1005	0	no	
Eastern Michigan University	631,183	X	X	X			X			24,287	26	18,660	34	5,627	112	1,245	507	no	
Ferris State University	499,998	X	X		OPT		X			10,930	46	10,092	50	838	597	709	705	no	
Finlandia University	0	X				X				418	0	418	0	0	0	47	0	no	
Grace Bible College	0	X				X				149	0	149	0	0	0	28	0	no	
Grand Valley State University	295,435	X	X				X			3,377	87	16,385	18	3,377	87	1,221	242	no	
Hillsdale College *	0	X				X				1,230	0	1,230	0	0	0	130	0	no	
Hope College	285,023	X				X				2,999	95	2,999	95	0	0	332	859	no	
Kalamazoo College	0	X				X				1,384	0	1,384	0	0	0	113	0	no	
Kendall College of Art & Design *	0	X				X				844	0	844	0	0	0	105	0	no	
Kettering University	61,043	X	X			X				3,346	18	2,653	23	693	88	162	377	no	
Lake Superior State University	313,200	X					X			3,142	100	3,110	101	32	9,788	196	1,598	no	
Lawrence Technological University	0	X	X	X		X				4,151	0	2,957	0	1,194	0	375	0	no	
Madonna University	0	X	X			X				3,821	0	3,043	0	778	0	289	0	no	
Marygrove College	0	X	X			X				6,097	0	879	0	5,218	0	73	0	no	
Michigan State University	100,967,246	X	X	X	X	MD DO	X	X		45,007	2,243	34,874	2,895	10,133	9,964	4,249	23,763	no	
<i>School of Medicine</i>	7,336,003																		
Michigan Technological University	8,737,702	X	X	X			X			6,603	1,323	5,931	1,473	672	13,003	416	21,004	no	
Northern Michigan University	1,134,604	X	X				X			8,577	132	7,724	147	853	1,330	399	2,844	no	
Northwood University	0	X	X			X				3,654	0	3,414	0	240	0	207	0	no	
Oakland University	4,361,432	X	X	X			X			15,875	275	12,529	348	3,346	1,303	762	5,724	no	
Olivet College	0	X	X			X				834	0	820	0	14	0	66	0	no	
Reformed Bible College	0	X				X				294	0	294	0	0	0	19	0	no	
Rochester College	0	X				X				893	0	893	0	0	0	144	0	no	
Saginaw Valley State University	0	X	X				X			8,936	0	7,320	0	1,616	0	236	0	no	
Saint Mary's College	0	X	X			X				513	0	513	0	0	0	60	0	no	
Siena Heights University	0	X	X			X				2,024	0	1,746	0	278	0	180	0	no	
Spring Arbor University	125,000	X	X			X				2,616	48	2,173	58	443	282	76	1,645	no	
University of Detroit Mercy	0	X	X	X		X				5,843	0	3,712	0	2,131	0	368	0	no	
University of Michigan System																			
Ann Arbor	428,841,708	X	X	X		X	X			38,248	11,212	24,547	17,470	13,701	31,300	4,941	86,792	no	
<i>School of Medicine</i>	213,169,712																		
Dearborn	28,000	X	X				X			8,144	3	6,326	4	1,818	15	504	56	no	
Flint	0	X	X				X			6,397	0	5,879	0	518	0	405	0	no	

MICHIGAN Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Walsh College	0	X	X				X			3,214	0	1,192	0	2,022	0	131	0	no	
Wayne State University <i>School of Medicine</i>	102,689,881 56,012,576	X	X	X		X	X			31,040	3,308	18,489	5,554	12,551	8,182	2,992	34,321	no	
Western Michigan University	8,927,784	X	X	X			X			28,931	309	23,156	386	5,775	1,546	929	9,610	no	
William Tyndale College	0	X					X			608	0	608	0	0	0	65	0	no	
^a Listed as ten separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^b Listed as seven separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			
^c Enrollment and faculty information from Peterson's. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			

MINNESOTA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Adler Graduate School *	0	X				X				168	0	0	168	0	36	0	no		
Augsburg College	255,965	X	X			X				2,911	88	2,780	92	131	1,954	296	865	no	
Bethany Lutheran College	0	X				X				401	0	401	0	0	75	0	no		
Bethel College and Seminary	17,656	X	X	X		X				3,878	5	2,700	7	1,178	15	256	69	no	
Capella University	0	X	X	X		X				3,759	0	422	0	3,337	0	317	0	no	
Carleton College	688,772	X				X				1,948	354	1,948	354	0	245	2,811	no		
College of Saint Benedict	0	X				X				2,100	0	2,100	0	0	160	0	no		
College of St Catherine	465,525	X	X	X		X				4,622	101	3,600	129	1,022	456	298	1,562	no	
College of St Scholastica	183,580	X	X			X				2,054	89	1,499	122	555	331	113	1,625	no	
College of Visual Arts	0	X				X				269	0	269	0	0	56	0	no		
Concordia College-Moorhead	0	X				X				2,707	0	2,707	0	0	254	0	no		
Concordia College-St Paul	0	X	X			X				1,773	0	1,511	0	262	310	0	no		
Crossroads College	0	X				X				109	0	109	0	0	15	0	no		
Crown College	0	X	X			X				877	0	862	0	15	56	0	no		
Gustavus Adolphus College	0	X				X				2,562	0	2,562	0	0	180	0	no		
Hamline University	98,200	X	X	X		X				4,123	24	1,873	52	2,250	249	394	no		
Luther Seminary	0	X	X	X		X				713	0	0	0	713	40	0	no		
Macalester College	826,264	X				X				1,822	453	1,822	453	0	222	3,722	no		
Martin Luther College	0	X				X				1,060	0	1,060	0	0	99	0	no		
Mayo Clinic College of Medicine ^o	148,057,109	X	X			X	X			668	221,642	47	3,150,151	621	238,417	513	288,610	no	
<i>School of Medicine</i>	148,057,109																		
Minneapolis College of Art & Design	0	X	X			X				628	0	584	0	44	27	0	no		
Minnesota State University System																			
Bemidji State University	0	X	X			X				4,664	0	4,446	0	218	306	0	no		
Minnesota State University-Mankato	0	X	X			X				13,275	0	11,658	0	1,617	738	0	no		
Minnesota State University-Moorhead	156,254	X	X			X				7,431	21	7,048	22	383	467	335	no		
Metropolitan State University	0	X	X			X				6,010	0	5,662	0	348	466	0	no		
Southwest State University	0	X	X			X				5,056	0	4,408	0	648	221	0	no		
St Cloud State University	1,104,664	X	X			X				15,920	69	14,673	75	1,247	886	811	1,362	no	
Winona State University	62,593	X	X			X	X			7,707	8	7,114	9	593	106	479	131	no	
North Central University	0	X				X				1,230	0	1,230	0	0	96	0	no		
Northwestern College	0	X				X				2,277	0	2,277	0	0	201	0	no		
Northwestern Health Sciences University	370,362	X	X			DC	X			825	449	32	11,574	793	467	80	4,630	no	
Oak Hills Christian College	0	X				X				174	0	174	0	0	11	0	no		
Pillsbury Baptist Bible College	0	X				X				222	0	222	0	0	19	0	no		
Saint John's University	153,443	X	X			X				2,040	75	1,888	81	152	1,009	177	867	no	
Saint Mary's University of Minnesota	0	X	X	X		X				5,008	0	1,621	0	3,387	416	0	no		
Saint Olaf College	250,384	X				X				3,011	83	3,011	83	0	318	787	no		
University of Minnesota																			
Crookston	0	X				X				2,529	0	2,529	0	0	50	0	no		
Duluth	2,061,752	X	X	X		X	X			9,380	220	8,732	236	687	3,001	473	4,359	no	
<i>School of Medicine</i>	1,952,299																		
Morris	0	X				X				1,927	0	1,927	0	0	130	0	no		
Twin Cities	309,877,336	X	X	X	X	X	X	X		46,597	6,650	32,136	9,643	14,461	21,428	3,086	100,414	no	
<i>School of Medicine</i>	116,598,707																		
University of Saint Thomas	0	X	X	X		X				11,473	0	5,416	0	6,057	765	0	no		
Walden University	0	X	X			X				2,082	0	0	0	2,082	229	0	no		

MINNESOTA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	

^a Faculty information from Adler Graduate School website <http://www.alfredadler.edu/faculty/faculty.html>.

^b Beginning October 1, 2003, the Mayo Clinic will officially use the name "Mayo Clinic College of Medicine" when referring to its education and research programs, which include the Mayo Medical School, the Mayo Graduate School of Medicine, the Mayo Graduate School, and the Mayo School of Health Related Sciences.

MISSISSIPPI Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Alcorn State University	3,275,827	X	X				X	1890	X	3,096	1,058	2,543	1,288	553	5,924	222	14,756	no			
Belhaven College	0	X	X				X			1,883	0	1,666	0	217	0	48	0	no			
Blue Mountain College	0	X					X			395	0	395	0	0	0	29	0	no			
Delta State University	1,400,000	X	X	X			X			3,801	368	3,323	421	478	2,929	210	6,667	no			
Jackson State University	9,889,789	X	X	X			X		X	7,098	1,393	5,741	1,723	1,357	7,288	423	23,380	no			
Magnolia Bible College	0	X					X			37	0	37	0	0	0	8	0	no			
Millsaps College	31,578	X	X				X			1,330	24	1,221	26	109	290	102	310	no			
Mississippi College	0	X	X				X			3,223	0	2,289	0	934	0	239	0	no			
Mississippi State University	43,634,342	X	X	X	X		X	X		16,878	2,585	13,604	3,207	3,274	13,328	1053	41,438	no			
Mississippi University for Women	826,529	X	X				X			2,328	355	2,166	382	162	5,102	214	3,862	no			
Mississippi Valley State University	1,054,974	X	X				X	X		3,081	342	2,636	400	445	2,371	117	9,017	no			
Rust College	27,000	X					X		X	801	34	801	34	0	0	46	587	no			
Tougaloo College	1,703,210	X					X		X	950	1,793	950	1,793	0	0	93	18,314	no			
University of Mississippi ^a <i>School of Medicine</i>	41,834,686 14,223,773	X	X	X		X	X			14,284	2,929	10,634	3,934	3,650	11,462	1,386	30,184	no			
University of Southern Mississippi	21,142,602	X	X	X			X			15,233	1,388	12,844	1,646	2,389	8,850	757	27,929	no			
William Carey College	0	X	X				X			2,365	0	1,629	0	736	0	80	0	no			

^a Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

MISSOURI Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
Avila College	25,000	X	X				X				1,644	15	1,235	20	409	61	189	132	no	
Baptist Bible College		0	X	X			X				763	0	733	0	30	0	45	0	no	
Central Bible College		0	X				X				805	0	805	0	0	0	56	0	no	
Central Christian College of the Bible		0	X				X				191	0	191	0	0	0	27	0	no	
Central Methodist College		0	X	X			X				1,279	0	1,224	0	55	0	63	0	no	
Central Missouri State University		0	X	X				X			10,822	0	9,068	0	1,754	0	569	0	no	
Cleveland Chiropractic College		0	X			DC	X				494	0	64	0	430	0	44	0	no	
College of the Ozarks		0	X				X				1,395	0	1,395	0	0	0	110	0	no	
Columbia College		0	X	X			X				8,564	0	8,361	0	203	0	51	0	no	
Concordia Seminary-St Louis		0	X	X			X				559	0	0	0	559	0	40	0	no	
Culver-Stockton College		0	X				X				821	0	821	0	0	0	69	0	no	
DeVry University-Kansas City		0	X	X			X				2,620	0	2,620	0	0	0	143	0	no	
Drury University		0	X	X			X				4,243	0	3,916	0	327	0	114	0	no	
Evangel University		0	X	X			X				1,521	0	1,477	0	44	0	105	0	no	
Fontbonne College		0	X	X			X				2,192	0	1,516	0	676	0	174	0	no	
Forest Institute of Professional Psychology		0	X	X			X				242	0	0	0	242	0	29	0	no	
Hannibal-Lagrange College		0	X				X				1,099	0	1,099	0	0	0	50	0	no	
Harris-Stowe State College		0	X					X		X	1,921	0	1,921	0	0	0	81	0	no	
Kirksville College of Osteopathic Medicine	437,947		X	X		DO	X				1,140	384	0	0	1,140	384	132	3,318	no	
Lincoln University	2,872,219		X	X			X	1890	X		3,332	862	3,124	919	208	13,809	126	22,795	no	
Lindenwood University		0	X	X			X				6,446	0	4,199	0	2,247	0	526	0	no	
Logan College of Chiropractic		0	X				X				821	0	85	0	736	0	95	0	no	
Manville University of St Louis		0	X	X			X				3,162	0	2,632	0	530	0	295	0	no	
Missouri Baptist College		0	X	X			X				3,105	0	2,734	0	371	0	80	0	no	
Missouri Southern State College		0	X				X				5,899	0	5,899	0	0	0	290	0	no	
Missouri Valley College		0	X				X				1,577	0	1,577	0	0	0	92	0	no	
Missouri Western State College		0	X					X			5,102	0	5,102	0	0	0	323	0	no	
Northwest Missouri State University		0	X	X			X				6,625	0	5,602	0	1,023	0	242	0	no	
Ozark Christian College		0	X				X				744	0	744	0	0	0	46	0	no	
Park University		0	X	X			X				9,482	0	9,262	0	220	0	58	0	no	
Rockhurst University		0	X	X			X				2,730	0	2,011	0	719	0	136	0	no	
St Louis College of Pharmacy		0	X	X			X				72	0	0	0	72	0	65	0	no	
Saint Luke's College		0	X				X				115	0	115	0	0	0	18	0	no	
Saint Louis University	46,294,682		X	X	X		X	X			13,521	3,424	9,604	4,820	3,917	11,819	1,569	29,506	no	
<i>School of Medicine</i>	<i>22,777,885</i>																			
Southeast Missouri State University	2,163,854		X	X			X				9,348	231	8,094	267	1,254	1,726	404	5,356	no	
Southwest Baptist University		0	X	X			X				3,564	0	2,714	0	850	0	329	0	no	
Southwest Missouri State University		0	X	X				X			18,252	0	15,147	0	3,105	0	979	0	no	
Stephens College	54,000		X	X			X				669	81	618	87	51	1,059	66	818	no	
Truman State University	407,174		X	X			X				6,005	68	5,685	72	320	1,272	402	1,013	no	
University of Health Sciences	515,701					DO	X				891	579	0	0	891	579	33	15,627	no	
University of Missouri System																				
Columbia	67,457,235		X	X	X	X	X	X	X		23,667	2,850	18,431	3,660	5,236	12,883	3,149	21,422	no	
<i>School of Medicine</i>	<i>11,798,199</i>																			
Kansas City	21,188,484		X	X	X		X				12,969	1,634	8,299	2,553	4,670	4,537	1,334	15,883	no	
<i>School of Medicine</i>	<i>6,059,137</i>																			

MISSOURI Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of Missouri System (cont.)																			
Rolla	12,188,484	X	X	X			X				4,883	2,496	3,756	3,245	1,127	10,815	456	26,729	no
St Louis	3,567,908	X	X	X		OPT		X			14,993	238	12,251	291	2,742	1,301	1,101	3,241	no
Washington University, St Louis	360,440,828	X	X	X		X	X				12,187	29,576	6,772	53,225	5,415	66,563	2,181	165,264	no
<i>School of Medicine</i>	<i>315,794,675</i>																		
Webster University	0	X	X	X			X				15,402	0	3,760	0	11,642	0	3,321	0	no
Westminster College	800,000	X					X				770	1,039	770	1,039	0	0	71	11,268	no
William Jewell College	0	X					X				1,369	0	1,369	0	0	0	90	0	no
William Woods University	0	X	X				X				1,659	0	989	0	670	0	94	0	no

MONTANA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Carroll College	0	X					X				1,347	0	1,347	0	0	0	125	0	no
Montana State University																			
Billings	0	X	X				X				3,818	0	3,347	0	471	0	223	0	no
Bozeman	33,337,405	X	X	X			X	X			11,670	2,857	10,462	3,187	1,208	27,597	950	35,092	no
Northern	0	X	X				X				1,589	0	1,428	0	161	0	73	0	no
Rocky Mountain College	31,595	X				X					767	41	767	41	0	0	44	718	no
Salish Kootenai College	781,727	X				X					976	801	976	801	0	0	91	8,590	no
University of Great Falls	0	X	X			X					879	0	753	0	126	0	98	0	no
University of Montana																			
Missoula	20,613,525	X	X	X			X	X			12,645	1,630	10,828	1,904	1,817	11,345	728	28,315	no
Montana Tech	1,153,523	X	X				X				1,660	695	1,579	731	81	14,241	141	8,181	no
Western Montana College of The University of Montana	201,964	X					X				1,163	174	1,163	174	0	0	79	2,557	no

NEBRASKA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Bellevue University		0	X	X			X				3,923	0	3,203	0	720	0	68	0	no
Chadron State College		0	X	X				X			2,804	0	2,394	0	410	0	101	0	no
Clarkson College		0	X	X			X				416	0	323	0	93	0	33	0	no
College of Saint Mary		0	X				X				930	0	930	0	0	0	144	0	no
Concordia University-Nebraska		0	X	X			X				1,366	0	1,287	0	79	0	126	0	no
Creighton University	7,272,882	X	X	X		X	X				6,297	1,155	3,679	1,977	2,618	2,778	892	8,153	no
<i>School of Medicine</i>	<i>3,531,708</i>																		
Dana College		0	X				X				565	0	565	0	0	0	62	0	no
Doane College		0	X	X			X				2,165	0	1,539	0	626	0	210	0	no
Grace University		0	X	X			X				595	0	519	0	76	0	53	0	no
Hastings College		0	X	X				X			1,108	0	1,067	0	41	0	118	0	no
Midland Lutheran College		0	X				X				991	0	991	0	0	0	82	0	no
Nebraska Christian College		0	X				X				147	0	147	0	0	0	12	0	no
Nebraska Methodist College		0	X	X			X				380	0	347	0	33	0	37	0	no
Nebraska Wesleyan University		0	X	X			X				1,719	0	1,621	0	98	0	171	0	no
Peru State College		0	X	X				X			1,629	0	1,450	0	179	0	145	0	no
Union College		0	X				X				885	0	885	0	0	0	88	0	no
University of Nebraska System																			
Kearney	900,000	X	X				X				6,426	140	5,407	166	1,019	883	398	2,261	no
Lincoln	51,786,237	X	X	X			X	X			22,764	2,275	17,985	2,879	4,779	10,836	1,935	26,763	no
Medical Center <i>School of Medicine</i>	33,524,126 <i>28,145,257</i>	X	X	X		X	X				2,724	12,307	663	50,564	2,061	16,266	831	40,342	no
Omaha	5,472,340	X	X	X			X				14,143	387	11,138	491	3,005	1,821	846	6,468	no
Wayne State College		0	X	X			X				3,311	0	2,835	0	476	0	199	0	no
York College		0	X				X				413	0	413	0	0	0	53	0	no

NEVADA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Sierra Nevada College	0	X				X				560	0	303	0	257	0	101	0	no	
University of Nevada System																			
Las Vegas	19,107,547	X	X	X			X			23,313	820	18,606	1,027	4,707	4,059	1,360	14,050	no	
Reno	41,153,658	X	X	X	X		X	X		14,316	2,875	11,075	3,716	3,241	12,698	1,267	32,481	no	
<i>School of Medicine</i>	<i>11,720,921</i>																		

NEW HAMPSHIRE Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Antioch New England	0	X	X			X				910	0	0	0	910	0	122	0	no	
Colby-Sawyer College	0	X				X				901	0	901	0	0	0	101	0	no	
College for Lifelong Learning	0	X					X			2,095	0	2,006	0	89	0	34	0	no	
Daniel Webster College	0	X	X			X				1,062	0	1,062	0	0	0	145	0	no	
Dartmouth College	95,271,548	X	X	X		X	X			5,495	17,338	4,118	23,135	1,377	69,188	816	116,754	no	
<i>School of Medicine</i>	<i>60,774,511</i>																		
Franklin Pierce College	1,000,000	X	X			X				3,470	288	2,803	357	667	1,499	137	7,299	no	
Hesser College	0	X				X				2,693	0	2,693	0	0	0	209	0	no	
Keene State College	0	X	X				X			4,633	0	4,400	0	233	0	199	0	no	
New England College	0	X	X			X				895	0	808	0	87	0	85	0	no	
Southern New Hampshire University ^a	625,000	X	X	X		X				5,584	112	3,907	160	1,677	373	265	2,358	no	
Notre Dame College	0	X	X			X				1,025	0	571	0	454	0	50	0	no	
Plymouth State College	0	X	X				X			4,418	0	3,565	0	853	0	292	0	no	
Rivier College	0	X	X			X				2,375	0	1,468	0	907	0	83	0	no	
Saint Anselm College	3,366,500	X				X				1,964	1,714	1,964	1,714	0	0	121	27,822	no	
The Thomas More College of Liberal Arts	0	X				X				69	0	69	0	0	0	10	0	no	
University of New Hampshire																			
Durham (main campus)	37,850,530	X	X	X			X	X		14,766	2,563	12,059	3,139	2,707	13,982	807	46,903	no	
Manchester	0	X					X			1,016	0	1,016	0	0	0	30	0	no	
White Pines College ^b	0	X				X				140	0	140	0	0	0	26	0	no	

^a New Hampshire College changed its name to Southern New Hampshire University in 2001.

^b White Pines College changed its name to Chester College of New England in October 2002.

NEW JERSEY Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Berkeley College		0	X				X				2,144	0	2,144	0	0	0	126	0	no
Bloomfield College		0	X				X				1,769	0	1,769	0	0	0	183	0	no
Caldwell College	1,000,000	X	X				X				2,238	447	1,923	520	315	3,175	168	5,952	no
Centenary College		0	X	X			X				1,637	0	1,453	0	184	0	133	0	no
The College of New Jersey	448,978	X	X					X			6,846	66	5,971	75	875	513	682	658	no
College of Saint Elizabeth		0	X	X			X				1,741	0	1,251	0	490	0	166	0	no
Drew University		0	X	X	X		X				2,418	0	1,536	0	882	0	278	0	no
Fairleigh Dickinson University		0	X	X	X		X				9,552	0	6,540	0	3,012	0	675	0	no
Felician College		0	X	X			X				1,719	0	1,620	0	99	0	195	0	no
Georgian Court College		0	X	X			X				2,708	0	1,767	0	941	0	213	0	no
Kean University	800,000	X	X					X			12,094	66	9,467	85	2,627	305	900	889	no
Monmouth University		0	X	X			X				5,753	0	4,179	0	1,574	0	467	0	no
Montclair State University	1,168,732	X	X	X				X			13,855	84	10,404	112	3,451	339	955	1,224	no
New Jersey City University	103,127	X	X				X				8,823	12	6,085	17	2,738	38	538	192	no
New Jersey Institute of Technology	7,843,564	X	X	X				X			8,862	885	5,698	1,377	3,164	2,479	765	10,253	no
Princeton University	79,803,995	X	X	X			X				6,668	11,968	4,744	16,822	1,924	41,478	959	83,216	Princeton Plasma Physics Laboratory
Ramapo College	128,889	X	X					X			5,199	25	4,890	26	309	417	371	347	no
Richard Stockton College of New Jersey	86,225	X	X					X			6,459	13	6,136	14	323	267	364	237	no
Rider University	131,189	X	X				X				5,456	24	4,306	30	1,150	114	407	322	no
Rowan University	769,938	X	X	X				X			9,788	79	8,346	92	1,442	534	716	1,075	no
Rutgers University																			
New Brunswick	106,544,770	X	X	X				X	X		35,650	2,989	28,351	3,758	7,299	14,597	2,504	42,550	no
Camden		0	X	X				X			5,097	0	3,677	0	1,420	0	384	0	no
Newark	2,759,659	X	X	X				X			9,602	287	6,118	451	3,484	792	608	4,539	no
Saint Peter's College		0	X	X			X				3,225	0	2,586	0	639	0	305	0	no
Seton Hall University	691,558	X	X	X			X				9,604	72	5,113	135	4,491	154	834	829	no
Stevens Institute of Technology	4,679,772	X	X	X			X				4,273	1,095	1,655	2,828	2,618	1,788	286	16,363	no
Thomas Edison State College		0	X	X				X			8,335	0	8,152	0	183	0	85	0	no
University of Medicine & Dentistry of New Jersey ^a	106,805,489	X	X	X		DO	MD	X			4,660	22,920	791	135,026	3,869	27,605	1,985	53,806	no
New Jersey Medical School ^b	46,058,128																		
Robert Wood Johnson Medical School ^b	57,610,612																		
William Paterson University	216,483	X	X					X			10,466	21	8,862	24	1,604	135	844	256	no
	103,668,740																		

^a University of Medicine & Dentistry of New Jersey has two medical schools: New Jersey Medical School and Robert Wood Johnson Medical School that award MD degrees. It also has a school of osteopathic medicine that awards a DO degree.

^b The University of Medicine and Dentistry of New Jersey consists of the Graduate School of Biomedical Sciences, the New Jersey Dental School, the New Jersey Medical School, the Robert Wood Johnson Medical School, the School of Health Related Professions, the School of Nursing, the School of Osteopathic Medicine, and the School of Public Health, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the two Schools of Medicine are specified here. Note that these funds are included in the total provided for the University of Medicine and Dentistry of New Jersey on the line above. Information from <http://www.umdnj.edu/homeweb/education/edu.htm>.

NEW MEXICO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
College of Santa Fe	0	X	X			X			1,588	0	1,294	0	294	0	194	0	no		
College of the Southwest	0	X	X			X			640	0	451	0	189	0	109	0	no		
Eastern New Mexico University	199,552	X	X				X		3,556	56	2,967	67	589	339	188	1,061	no		
New Mexico Institute of Mining & Technology	12,264,389	X	X	X			X		1,576	7,782	1,243	9,867	333	36,830	115	106,647	no		
New Mexico Highlands University	4,296,426	X	X				X		3,364	1,277	1,886	2,278	1,478	2,907	134	32,063	no		
New Mexico State University	27,835,004	X	X	X			X	X	15,224	1,828	12,584	2,212	2,640	10,544	663	41,983	no		
St. John's College-Santa Fe	0	X	X			X			525	0	442	0	83	0	59	0	no		
University of New Mexico <i>School of Medicine</i>	88,509,905 34,270,183	X	X	X		X	X		23,753	3,726	16,441	5,383	7,312	12,105	2,374	37,283	no		
Western New Mexico University	0	X	X			X			2,489	0	1,936	0	553	0	81	0	no		

NEW YORK Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Adelphi University	154,375	X	X	X			X			6,433	24	3,391	46	3,042	51	625	247	no	
Albany College of Pharmacy	119,948	X					X			712	168	588	204	124	967	61	1,966	no	
Albany Medical College	10,113,727	X	X			X	X			633	15,977	0	0	633	15,977	1131	8,942	no	
<i>School of Medicine</i>	10,113,727																		
Alfred University	1,286,518	X	X	X			X			1,620	794	1,389	926	231	5,569	67	19,202	no	
Bank Street College of Education	0	X					X			1,052	0	0	0	1,052	0	73	0	no	
Bard College	203,900	X	X	X			X			1,508	135	1,336	153	172	1,185	110	1,854	no	
Barnard College	1,029,747	X					X			2,261	455	2,261	455	0	0	296	3,479	no	
Borica College	0	X	X				X			1,163	0	1,128	0	35	0	114	0	no	
Canisius College	358,224	X	X				X			4,874	73	3,382	106	1,492	240	445	805	no	
Cazenovia College	0	X					X			847	0	847	0	0	0	93	0	no	
City University of New York System																			
Baruch College	336,308	X	X				X			15,773	21	12,969	26	2,804	120	1,099	306	no	
Brooklyn College	2,985,760	X	X				X			15,137	197	10,112	295	5,025	594	1,049	2,846	no	
City College	15,419,522	X	X				X			10,378	1,486	7,969	1,935	2,409	6,401	906	17,019	no	
College of Staten Island	1,340,667	X	X	X			X			11,325	118	9,914	135	1,411	950	740	1,812	no	
Graduate School & University Center	1,015,632	X	X				X			3,703	274	0	0	3,703	274	144	7,053	no	
Hunter College	14,792,501	X	X				X			20,397	725	15,702	942	4,695	3,151	1,460	10,132	no	
John Jay College of Criminal Justice	183,320	X	X				X			11,469	16	10,428	18	1,041	176	805	228	no	
Lehman College	2,620,946	X	X				X			8,889	295	6,922	379	1,967	1,332	660	3,971	no	
Medgar Evers College	487,926	X					X		X	4,715	103	4,715	103	0	0	348	1,402	no	
New York City College of Technology	0	X					X			11,028	0	11,028	0	0	0	1,023	0	no	
Queens College	2,194,625	X	X				X			15,391	143	11,213	196	4,178	525	1,242	1,767	no	
York College	2,351,757	X					X			5,208	452	5,208	452	0	0	507	4,639	no	
CUNY Research Administration	6,286,835																		
Clarkson University	2,126,603	X	X	X			X			2,949	721	2,610	815	339	6,273	185	11,495	no	
Colgate University	653,317	X	X				X			2,821	232	2,814	232	7	93,331	263	2,484	no	
College of Aeronautics	0	X					X			1,379	0	1,379	0	0	0	120	0	no	
College of Mount St Vincent	0	X	X				X			1,379	0	1,159	0	220	0	143	0	no	
College of New Rochelle	0	X	X				X			6,720	0	5,123	0	1,597	0	605	0	no	
College of Saint Rose *	0	X	X				X			4,411	0	2,856	0	1,555	0	371	0	no	
Columbia University	334,901,399	X	X	X			X			19,710	16,991	6,867	48,770	12,843	26,077	4,132	81,051	no	
<i>School of Medicine</i>	206,221,353																		
Concordia College-Bronxville	0	X					X			662	0	662	0	0	0	84	0	no	
The Cooper Union for the Advancement of Science & Art	0	X	X				X			906	0	878	0	28	0	261	0	no	
Cornell University ^o	258,544,760	X	X	X	X	X	X	X	X	20,155	12,828	13,876	18,633	6,279	41,176	2,807	92,107	National Astronomy and Ionosphere Center	
<i>School of Medicine</i>	109,559,176																		
Daemen College	0	X	X	X			X			1,988	0	1,879	0	109	0	203	0	no	
Dominican College	0	X	X				X			1,618	0	1,501	0	117	0	162	0	no	
Dowling College	0	X	X	X			X			5,580	0	2,685	0	2,895	0	117	0	no	
D'Youville College	0	X	X				X			2,486	0	961	0	1,525	0	178	0	no	
Elmira College	0	X	X				X			1,938	0	1,581	0	357	0	184	0	no	
Excelsior College ^e	0	X	X				X			20,493	0	20,107	0	386	0	0	0	no	
Five Towns College	0	X	X				X			1,083	0	1,029	0	54	0	71	0	no	
Fordham University	1,302,257	X	X	X			X			13,843	94	7,062	184	6,781	192	1,317	989	no	

NEW YORK Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
Hamilton College	606,039	X					X				1,755	345	1,755	345	0	0	188	3,224	no	
Hartwick College	250,000	X					X				1,446	173	1,446	173	0	0	160	1,563	no	
Hebrew Union College-Jewish Institute of Religion ⁴	0	X	X				X				104	0	0	0	104	0	82	0	no	
Hilbert College	0	X					X				964	0	964	0	0	0	93	0	no	
Hobart and William Smith Colleges	17,442	X					X				1,860	9	1,860	9	0	0	149	117	no	
Hofstra University	611,221	X	X	X			X				13,428	46	9,645	63	3,783	162	1,171	522	no	
Houghton College	0	X					X				1,422	0	1,422	0	0	0	120	0	no	
Iona College	117,958	X	X				X				4,388	27	3,417	35	971	121	344	343	no	
Ithaca College	306,961	X	X				X				6,483	47	6,209	49	274	1,120	564	544	no	
The Jewish Theological Seminary of America	0	X	X	X			X				526	0	173	0	353	0	97	0	no	
The Juilliard School	0	X	X	X			X				1,018	0	711	0	307	0	259	0	no	
Keuka College	15,950	X	X				X				1,063	15	1,063	15	0	0	85	188	no	
Le Moyne College	0	X	X				X				3,166	0	2,445	0	721	0	238	0	no	
Laboratory Institute of Merchandising	0	X					X				340	0	340	0	0	0	38	0	no	
Long Island University																				
Brentwood Campus	0	X	X				X				941	0	90	0	851	0	110	0	no	
Brooklyn Campus	1,591,495	X	X	X			X				7,998	199	5,456	292	2,542	626	864	1,842	no	
CW Post Campus	316,199	X	X	X			X				10,133	31	6,496	49	3,637	87	1,013	312	no	
Rockland Graduate Campus [*]	0	X					X				434	0	0	0	434	0	76	0	no	
Southampton College	0	X	X				X				3,284	0	3,051	0	233	0	205	0	no	
Westchester Campus	0	X					X				65	0	0	0	65	0	12	0	no	
Manhattan College	0	X	X				X				2,468	0	1,578	0	890	0	253	0	no	
Manhattan School of Music	0	X	X	X			X				831	0	395	0	436	0	340	0	no	
Manhattanville College	0	X	X				X				2,468	0	1,578	0	890	0	296	0	no	
Marist College	380,923	X	X				X				5,495	69	4,647	82	848	449	496	768	no	
Marymount College	32,400	X					X				1,001	32	1,001	32	0	0	42	771	no	
Marymount Manhattan College	0	X					X				2,707	0	2,707	0	0	0	401	0	no	
Medaille College	103,300	X	X				X				1,788	58	1,512	68	276	374	148	698	no	
Mercy College	490,813	X	X				X				9,520	52	6,982	70	2,538	193	213	2,304	no	
Metropolitan College of New York ¹	0	X	X				X				1,665	0	1,380	0	285	0	196	0	no	
Molloy College	0	X	X				X				2,538	0	2,010	0	528	0	128	0	no	
Monroe College ⁹	0	X					X				4,609	0	4,609	0	0	0	185	0	no	
Mount Saint Mary College	0	X	X				X				2,366	0	1,915	0	451	0	180	0	no	
Mount Sinai School of Medicine ⁵	150,446,538	X	X	X	X	X	X				610	246,634	0	0	610	246,634	1,436	104,768	no	
<i>School of Medicine ¹</i>	148,321,247																			
Nazareth College	0	X	X				X				3,107	0	1,898	0	1,209	0	401	0	no	
New School University	1,257,803	X	X	X			X				7,867	160	4,746	265	3,121	403	1,665	755	no	
New York Chiropractic College	0						DC	X			729	0	0	0	729	0	80	0	no	
New York Institute of Technology ¹	83,500	X	X				DO	X			9,066	9	5,612	15	3,454	24	731	114	no	
New York Medical College	20,431,552	X	X	X	X	X	X				1,483	13,777	0	0	1,483	13,777	619	33,007	no	
<i>School of Medicine [*]</i>	20,157,677																			
New York University	143,198,057	X	X	X		X	X				37,134	3,856	19,028	7,526	18,106	7,909	6,106	23,452	no	
<i>School of Medicine</i>	106,717,559																			
Niagara University	339,729	X	X				X				3,278	104	2,460	138	818	415	308	1,103	no	
Nyack College	0	X	X				X				2,454	0	1,897	0	557	0	174	0	no	
Pace University	558,775	X	X	X			X				13,336	42	8,913	63	4,423	126	1,125	497	no	
Paul Smith's College	63,887	X					X				354	180	354	180	0	0	131	488	no	
Polytechnic University of New York	3,284,995	X	X	X			X				3,051	1,077	1,709	1,922	1,342	2,448	362	9,075	no	

NEW YORK Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Pratt Institute		0	X	X			X				4,343	0	3,009	0	1,334	0	764	0	no
Rensselaer Polytechnic Institute	12,713,519	X	X	X			X				8,084	1,573	5,261	2,417	2,823	4,504	437	29,093	no
Roberts Wesleyan College		0	X				X				1,697	0	1,235	0	462	0	78	0	no
Rochester Institute of Technology	7,511,934	X	X	X			X				14,430	521	12,029	624	2,401	3,129	1,268	5,924	no
The Rockefeller University	69,404,849	X	X				X				151	459,635	0	0	151	459,635	194	357,757	no
The Sage Colleges ¹		0	X	X			X				3,334	0	2,350	0	984	0	165	0	no
St Bonaventure University		0	X				X				2,710	0	2,164	0	546	0	211	0	no
Saint Francis College	110,526	X					X				2,451	45	2,451	45	0	0	227	487	no
St John Fisher College		0	X				X				2,968	0	2,350	0	618	0	280	0	no
St John's University	400,000	X	X	X			X				18,953	21	14,732	27	4,221	95	1,193	335	no
St Joseph's College		0	X	X			X				4,761	0	4,439	0	322	0	435	0	no
St Lawrence University		0	X	X			X				2,099	0	1,970	0	129	0	201	0	no
St Thomas Aquinas College		0	X	X			X				2,140	0	1,944	0	196	0	141	0	no
Sarah Lawrence College		0	X	X			X				1,553	0	1,214	0	339	0	205	0	no
School of Visual Arts		0	X	X			X				5,792	0	5,473	0	319	0	836	0	no
Siena College		0	X				X				3,384	0	3,379	0	5	0	266	0	no
Skidmore College	219,428	X	X				X				2,543	86	2,487	88	56	3,918	206	1,065	no
State University of New York System																			
Albany	28,580,362	X	X	X			X				17,204	1,661	11,884	2,405	5,320	5,372	927	30,831	no
Binghamton	5,408,170	X	X	X			X				12,820	422	10,167	532	2,653	2,039	720	7,511	no
Buffalo	74,169,652	X	X	X		X	X				25,838	2,871	17,289	4,290	8,549	8,676	2,098	35,353	no
School of Medicine	24,305,822																		
Stony Brook	87,644,268	X	X	X		X	X				20,855	4,203	13,646	6,423	7,209	12,158	1,800	48,691	no
School of Medicine	34,156,594																		
College at Brockport	807,663	X	X				X				8,634	94	6,764	119	1,870	432	614	1,315	no
College at Buffalo (Buffalo State College)		0	X	X			X				11,743	0	9,590	0	2,153	0	716	0	no
College at Cortland	125,967	X	X				X				7,705	16	5,850	22	1,855	68	506	249	no
College at Fredonia	40,000	X	X				X				5,305	8	4,907	8	398	101	439	91	no
College at Geneseo	461,125	X	X	X			X				5,649	82	5,371	86	278	1,659	367	1,256	no
College at New Paltz	129,030	X	X				X				7,838	16	6,053	21	1,785	72	707	183	no
College at Old Westbury	1,891,219	X					X				3,077	615	3,077	615	0	0	232	8,152	no
College at Oneonta	93,834	X	X				X				5,742	16	5,462	17	280	335	413	227	no
College at Oswego	768,663	X	X				X				8,407	91	7,062	109	1,345	571	510	1,507	no
College at Plattsburgh	1,327,920	X	X				X				6,236	213	5,382	247	854	1,565	447	2,971	no
College at Potsdam	59,013	X	X				X				4,325	14	3,475	17	850	69	334	177	no
College at Purchase	245,443	X	X				X				4,018	61	3,866	63	152	1,615	359	684	no
College of Agriculture & Technology at Cobleskill		0	X				X				2,452	0	2,452	0	0	0	158	0	no
College of Agriculture & Technology at Morrisville		0	X				X				3,130	0	3,130	0	0	0	223	0	no
College of Environmental Science & Forestry	1,073,420	X	X	X			X				1,848	581	1,193	900	655	1,639	137	7,835	no
College of Optometry	2,169,625	X	X			OPT	X				285	7,613	0	0	285	7,613	152	14,274	no
College of Technology at Alfred		0	X				X				3,041	0	3,041	0	0	0	186	0	no
College of Technology at Farmingdale ^m		0	X				X				5,449	0	5,449	0	0	0	388	0	no
Empire State College		0	X	X			X				8,395	0	8,060	0	335	0	422	0	no
Fashion Institute of Technology		0	X	X			X				10,786	0	10,680	0	106	0	928	0	no
Health Science Center at Brooklyn	25,525,488	X	X	X		X	X				1,451	17,592	329	77,585	1,122	22,750	556	45,909	no
School of Medicine ⁿ	24,961,414																		

NEW YORK Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BABS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
Health Science Center at Syracuse <i>School of Medicine</i>	15,970,579 <i>15,970,579</i>	X	X	X		X		X			1,131	14,121	267	59,815	864	18,484	592	26,977	no	
State University of New York System (cont.)																				
Institute of Technology at Utica/Rome	50,000	X	X					X			2,537	20	2,046	24	491	102	167	299	no	
Maritime College at Ft Schuyler	0	X	X					X			797	0	622	0	140	0	75	0	no	
Syracuse University	13,736,860	X	X	X				X			18,072	760	12,464	1,102	5,608	2,450	1,405	9,777	no	
Teachers College, Columbia University	4,305,302		X	X				X			4,885	881	0	0	4,885	881	365	11,795	no	
Touro College	0	X	X	X				X			10,720	0	7,001	0	3,719	0	1,022	0	no	
Unification Theological Seminary ^a	0		X					X			106	0	0	0	106	0	15	0	no	
Union College	354,457	X	X					X			2,427	146	2,118	167	309	1,147	235	1,508	no	
Union Theological Seminary	0		X	X				X			287	0	0	0	287	0	19	0	no	
United States Merchant Marine Academy	0	X							X		850	0	850	0	0	0	71	0	no	
United States Military Academy	0	X							X		4,152	0	4,152	0	0	0	588	0	no	
University of Rochester <i>School of Medicine</i>	189,376,514 <i>120,787,707</i>	X	X	X		X	X				8,351	22,677	4,665	40,595	3,686	51,377	1,977	95,790	no	
Utica College of Syracuse University	107,091	X	X					X			2,286	47	2,143	50	143	749	213	503	no	
Vassar College	452,213	X						X			2,439	185	2,439	185	0	0	299	1,512	no	
Wagner College	0	X	X					X			1,700	0	1,347	0	353	0	197	0	no	
Webb Institute	0	X						X			73	0	73	0	0	0	14	0	no	
Wells College	0	X						X			443	0	443	0	0	0	68	0	no	
Yeshiva University <i>School of Medicine</i>	138,929,910 <i>129,827,962</i>	X	X	X		X	X				5,999	23,159	2,820	49,266	3,179	43,702	1,013	137,147	no	
^a Faculty information from http://www.strose.edu .																				
^b Cornell University is both a private endowed university and a federal land-grant institution of New York State. That is, Cornell University has the unique status of being both a federal land-grant institution in part and a privately endowed institution in part. For example, Cornell's Colleges of Veterinary Medicine, Agriculture and Life Sciences, and Human Ecology, as well as the School of Industrial and Labor Relations are land-grant units within Cornell University. In contrast, the Colleges of Arts and Science; Engineering; Architecture, Art, and Planning; and Medicine; and the Schools of Hotel Administration, Management, Law, and Medical Sciences are privately endowed units within Cornell University. To avoid breaking Cornell University into two parts for this study, Cornell University has been categorized as a "Private" institution and a "Land-Grant" institution. Listed as three separate entries in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																				
^c Enrollment information from CollegeView.com. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001. Excelsior College uses distance learning and other teaching models that rely extensively on adjunct faculty.																				
^d Faculty information from http://www.huc.edu .																				
^e Faculty information from http://www.liu.edu/cwis/rckld .																				
^f Enrollment information from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001. Faculty data from CollegeView.com.																				
^g Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																				
^h Mount Sinai School of Medicine and New York University School of Medicine are completely independent entities, each having its own Dean and Board of Trustees. In July 1999, Mount Sinai School of Medicine changed its academic affiliation to New York University and, hence, its diplomas read Mount Sinai School of Medicine of New York University.																				
ⁱ The Mount Sinai School of Medicine consists of the School of Medicine, the Graduate School of Biological Sciences, the Master of Public Health in Community Medicine Program, and Programs in Clinical Research and Genetic Counseling, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Mount Sinai School of Medicine on the line above.																				

NEW YORK Universities and Colleges	Federal R&D Funds Received in FY 2001 (Obligations)	Degrees Granted					Private Public Land Grant HECU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD		Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
^j Listed as three separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																
^k The New York Medical College consists of the School of Medicine, the School of Public Health, and the Graduate School of Basic Medical Sciences, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the New York Medical College on the line above.																
^l Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																
^m SUNY College of Technology at Farmingdale changed its name to Farmingdale State in 2002.																
ⁿ The State University of New York Health Science Center at Brooklyn consists of the College of Medicine, the School of Graduate Studies, the College of Health Related Professions, and the College of Nursing, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Health Science Center at Brooklyn on the line above.																
^o Faculty information from http://www.uts.edu .																

NORTH CAROLINA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Appalachian State University	403,061	X						X			13,762	29	12,560	32	1,202	335	601	671	no
Barber-Scotia College	0	X					X		X		571	0	571	0	0	0	32	0	no
Barton College	0	X					X				1,219	0	1,219	0	0	0	74	0	no
Belmont Abbey College	0	X					X				870	0	870	0	0	0	83	0	no
Bennett College	0	X					X		X		521	0	521	0	0	0	64	0	no
Brevard College	0	X					X				701	0	701	0	0	0	111	0	no
Campbell University	0	X	X				X				6,522	0	5,113	0	1,409	0	160	0	no
Catawba College	0	X	X				X				1,453	0	1,435	0	18	0	107	0	no
Chowan College	0	X						X			726	0	726	0	0	0	83	0	no
Davidson College	347,578	X					X				1,673	208	1,673	208	0	0	169	2,057	no
Duke University	327,315,626	X	X	X		X	X				11,926	27,446	6,203	52,767	5,723	57,193	5,780	56,629	no
School of Medicine	246,734,592																		
East Carolina University	6,362,811	X	X	X		X	X				19,412	328	15,460	412	3,952	1,610	1,358	4,685	no
School of Medicine	3,544,209																		
Elizabeth City State University	792,779	X	X				X		X		2,004	396	1,976	401	28	28,314	108	7,341	no
Elon University	138,363	X	X	X			X				4,341	32	4,160	33	181	764	317	436	no
Fayetteville State University	557,989	X	X	X			X		X		5,010	111	4,091	136	919	607	202	2,762	no
Gardner-Webb University	0	X	X	X			X				3,544	0	2,578	0	966	0	243	0	no
Greensboro College	0	X	X				X				1,139	0	1,139	0	0	0	110	0	no
Guilford College	0	X					X				1,490	0	1,490	0	0	0	130	0	no
High Point University	0	X	X				X				2,752	0	2,590	0	162	0	209	0	no
Johnson C. Smith University	700,710	X					X		X		1,595	439	1,595	439	0	0	93	7,535	no
Lees-McRae College	650,000	X					X				792	821	792	821	0	0	79	8,228	no
Lenoir-Rhyne College	0	X	X				X				1,456	0	1,316	0	140	0	153	0	no
Livingstone College	0	X					X		X		440	0	305	0	135	0	59	0	no
Mars Hill College	0	X					X				1,242	0	1,242	0	0	0	88	0	no
Meredith College	0	X	X				X				2,466	0	2,307	0	159	0	322	0	no
Methodist College	0	X	X				X				2,143	0	2,133	0	10	0	211	0	no
Montreat College	0	X	X				X				1,112	0	997	0	115	0	46	0	no
Mount Olive College	0	X					X				1,775	0	1,775	0	0	0	176	0	no
North Carolina Central University	5,518,094	X	X				X		X		5,753	959	4,232	1,304	1,521	3,628	296	18,642	no
North Carolina A&T State University	10,201,949	X	X	X			X	1890	X		8,319	1,226	7,331	1,392	988	10,326	464	21,987	no
North Carolina School of the Arts	0	X	X				X				789	0	708	0	81	0	137	0	no
North Carolina State University	63,026,231	X	X	X			X	X			29,286	2,152	22,418	2,811	6,868	9,177	1,684	37,427	no
North Carolina Wesleyan College	0	X					X				1,886	0	1,886	0	0	0	176	0	no
Peace College	0	X					X				630	0	630	0	0	0	68	0	no
Pfeiffer University	0	X	X				X				1,671	0	1,076	0	595	0	110	0	no
Piedmont Baptist College	0	X	X				X				256	0	240	0	16	0	44	0	no
Queens University of Charlotte	0	X	X				X				1,701	0	1,197	0	504	0	150	0	no
Roanoke Bible College	0	X					X				170	0	170	0	0	0	10	0	no
St Andrews Presbyterian College	0	X					X				638	0	638	0	0	0	60	0	no
St Augustine's College	0	X					X		X		1,360	0	1,360	0	0	0	128	0	no
Salem College	0	X	X				X				1,074	0	926	0	148	0	92	0	no
Shaw University	1,868,871	X					X		X		2,523	741	2,372	788	151	12,377	298	6,271	no
University of North Carolina																			
Asheville	28,000	X	X				X				3,293	9	3,257	9	36	778	182	154	no

NORTH CAROLINA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
University of North Carolina (cont.)																					
Chapel Hill	307,967,854	X	X	X	X		X				25,494	12,080	15,844	19,438	9,650	31,914	2,689	114,529	no		
<i>School of Medicine</i>	<i>168,763,891</i>																				
Charlotte	10,414,808	X	X	X			X				18,308	569	15,135	688	3,173	3,282	661	15,756	no		
Greensboro	3,769,087	X	X	X			X				13,775	274	10,459	360	3,316	1,137	699	5,392	no		
Pembroke ^a	0	X	X				X				3,933	0	3,506	0	427	0	175	0	no		
Wilmington	7,230,312	X	X	X			X				10,799	670	9,963	726	836	8,649	482	15,001	no		
Wake Forest University	109,377,419	X	X	X	X	X					6,271	17,442	4,136	26,445	2,135	51,231	550	198,868	no		
<i>School of Medicine</i>	<i>103,314,301</i>																				
Warren Wilson College	61,958	X	X				X				853	73	783	79	70	885	61	1,016	no		
Western Carolina University	50,850	X	X	X			X				6,863	7	5,665	9	1,198	42	302	168	no		
Wingate University	0	X	X				X				1,356	0	1,255	0	101	0	115	0	no		
Winston-Salem State University	1,924,488	X	X				X		X		2,992	643	2,962	650	30	64,150	177	10,873	no		

^a Actual amount is a "de-obligation" of \$1,638.

NORTH DAKOTA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Dickinson State University	0	X					X			2,101	0	2,101	0	0	0	115	0	no	
Jamestown College	0	X					X			1,136	0	1,136	0	0	0	73	0	no	
Mayville State University	0	X						X		755	0	755	0	0	0	46	0	no	
Minot State University	614,828	X	X				X			3,515	175	3,326	185	189	3,253	160	3,843	no	
North Dakota State University	18,111,327	X	X	X			X	X		10,534	1,719	9,429	1,921	1,105	16,390	817	22,168	no	
Trinity Bible College	0	X					X			272	0	272	0	0	0	29	0	no	
University of Mary	0	X	X				X			2,444	0	2,051	0	393	0	198	0	no	
University of North Dakota <i>School of Medicine</i>	21,840,044 8,012,392	X	X	X		X	X			11,764	1,857	9,785	2,232	1,979	11,036	758	28,813	no	
Valley City State University	0	X					X			1,005	0	1,005	0	0	0	77	0	no	

OHIO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
Antioch College		0	X				X				1,310	0	814	0	496	0	90	0	no	
Art Academy of Cincinnati		0	X	X			X				218	0	210	0	8	0	48	0	no	
Ashland University		0	X	X	X						6,359	0	2,760	0	3,599	0	227	0	no	
Baldwin-Wallace College		0	X	X			X				4,884	0	3,993	0	891	0	718	0	no	
Bowling Green State University	4,486,587	X	X	X				X			20,276	221	17,355	259	2,921	1,536	1,013	4,429	no	
Bluffton College		0	X	X			X				1,050	0	976	0	74	0	75	0	no	
Capital University	82,080	X	X				X				3,970	21	2,798	29	1,172	70	395	208	no	
Case Western Reserve University <i>School of Medicine</i>	195,106,497 146,221,297	X	X	X		X	X				9,216	21,170	3,381	57,707	5,835	33,437	1,566	124,589	no	
Cedarville University		0	X	X			X				2,969	0	2,945	0	24	0	193	0	no	
Central State University	238,000	X	X					X		X	1,400	170	1,320	180	80	2,975	103	2,311	no	
Cincinnati Bible College & Seminary		0	X	X			X				896	0	611	0	285	0	58	0	no	
Circleville Bible College		0	X				X				307	0	307	0	0	0	29	0	no	
Cleveland Institute of Art		0	X	X			X				614	0	614	0	0	0	88	0	no	
Cleveland Institute of Music		0	X	X	X						382	0	224	0	158	0	98	0	no	
Cleveland State University	3,717,212	X	X	X				X			15,701	237	10,412	357	5,289	703	894	4,158	no	
College of Mount St Joseph		0	X	X			X				2,272	0	2,071	0	201	0	205	0	no	
The College of Wooster	145,566	X					X				1,823	80	1,823	80	0	0	169	861	no	
Columbus College of Art & Design		0	X				X				1,737	0	1,737	0	0	0	243	0	no	
David N Myers College		0	X	X			X				1,177	0	1,096	0	81	0	126	0	no	
Defiance College		0	X	X			X				1,000	0	906	0	94	0	71	0	no	
Denison University	538,845	X					X				2,107	256	2,107	256	0	0	229	2,353	no	
Franciscan University of Steubenville		0	X	X			X				2,208	0	1,733	0	475	0	169	0	no	
Franklin University		0	X	X			X				5,537	0	4,650	0	887	0	358	0	no	
Heidelberg College	1,500,000	X	X				X				1,384	1,084	1,173	1,279	211	7,109	131	11,450	no	
Hiram College ^a		0	X				X				1,190	0	1,190	0	0	0	73	0	no	
John Carroll University	200,000	X	X				X				4,301	47	3,508	57	793	252	405	494	no	
Kent State University																				
Kent (main campus)	9,501,941	X	X	X				X			22,828	416	18,382	517	4,446	2,137	1,264	7,517	no	
Salem Regional Campus		0	X					X			1,034	0	1,034	0	0	0	64	0	no	
Stark		0	X					X			3,211	0	3,211	0	28	0	148	0	no	
Kenyon College	270,000	X					X				1,587	170	1,587	170	0	0	190	1,421	no	
Lake Erie College		0	X	X			X				848	0	607	0	241	0	101	0	no	
Laura & Alvin Siegal College of Judaic Studies ^b		0	X	X			X				127	0	15	0	112	0	24	0	no	
Lourdes College	200,000	X	X				X				1,235	162	1,235	162	0	0	123	1,626	no	
Malone College		0	X	X			X				2,139	0	1,900	0	239	0	212	0	no	
Marietta College		0	X	X			X				1,270	0	1,201	0	69	0	120	0	no	
Medical College of Ohio <i>School of Medicine</i> ^c	12,118,444 11,562,036	X	X			X	X				951	12,743	0	0	951	12,743	408	29,702	no	
Miami University of Ohio	3,438,065	X	X	X				X			16,311	211	15,065	228	1,246	2,759	1,033	3,328	no	
Mount Union College		0	X				X				2,368	0	2,368	0	0	0	207	0	no	
Mount Vernon Nazarene College	500,000	X	X				X				2,232	224	2,106	237	126	3,968	80	6,250	no	
Muskingum College		0	X	X			X				2,066	0	1,660	0	406	0	127	0	no	
Northeastern Ohio Universities College of Medicine <i>School of Medicine</i>	1,380,226 1,380,226	X	X			X	X				427	3,232	0	0	427	3,232	54	25,560	no	
Notre Dame College		0	X	X			X				848	0	734	0	114	0	34	0	no	
Oberlin College	188,478	X	X				X				2,857	66	2,840	66	17	11,087	313	602	no	

OHIO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BVS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Ohio Dominican College		0	X	X			X				2,197	0	2,197	0	0	0	131	0	no
Ohio Northern University		0	X				X				3,345	0	2,366	0	979	0	245	0	no
Ohio State University																			
Columbus (includes Agricultural Experiment Station at Wooster)	173,332,020	X	X	X	X	MD OPT	X	X			48,477	3,576	36,049	4,808	12,428	13,947	3,592	48,255	no
School of Medicine	63,661,780																		
Lima		0	X	X			X				1,356	0	1,213	0	143	0	82	0	no
Mansfield		0	X	X			X				1,495	0	1,399	0	96	0	75	0	no
Marion		0	X	X			X				1,390	0	1,295	0	95	0	88	0	no
Newark		0	X	X			X				2,079	0	1,918	0	161	0	106	0	no
Ohio University ^d	13,633,011	X	X	X		DO	X				28,197	483	24,431	558	3,766	3,620	1,685	8,091	no
Ohio Wesleyan University	2,108,941	X					X				1,886	1,118	1,886	1,118	0	0	177	11,915	no
Otterbein College	42,220	X	X				X				2,974	14	2,525	17	449	94	213	198	no
Shawnee State University		0	X				X				3,364	0	3,364	0	0	0	235	0	no
Tiffin University		0	X	X			X				1,570	0	1,299	0	271	0	74	0	no
Union Institute & University		0	X	X	X		X				1,739	0	626	0	1,113	0	237	0	no
University of Akron	8,360,521	X	X	X			X				22,368	374	18,240	458	4,128	2,025	1,619	5,164	no
University of Cincinnati	109,719,032	X	X	X		X	X				27,289	4,021	19,841	5,530	7,448	14,731	2,598	42,232	no
School of Medicine	84,025,831																		
University of Dayton	23,418,238	X	X	X			X				10,252	2,284	7,155	3,273	3,097	7,562	806	29,055	no
The University of Findlay	158,476	X	X				X				4,585	35	3,381	47	1,204	132	333	476	no
University of Northwestern Ohio		0	X				X				2,130	0	2,130	0	0	0	96	0	no
University of Rio Grande		0	X	X			X				2,077	0	1,932	0	145	0	144	0	no
University of Toledo	9,279,907	X	X	X			X				20,313	457	16,754	554	3,559	2,607	1,177	7,884	no
Urbana University		0	X	X			X				1,433	0	1,359	0	74	0	49	0	no
Ursuline College		0	X	X			X				1,281	0	1,019	0	262	0	172	0	no
Walsh University		0	X	X			X				1,522	0	1,401	0	121	0	106	0	no
Wilberforce University		0	X				X		X		925	0	925	0	0	0	66	0	no
Wilmington College		0	X	X			X				1,876	0	1,876	0	0	0	235	0	no
Wittenberg University	67,480	X	X				X				2,277	30	2,221	30	56	1,205	190	355	no
Wright State University ^e	13,527,714	X	X	X		X	X				14,593	927	11,326	1,194	3,267	4,141	681	19,864	no
School of Medicine	7,969,505																		
Xavier University		0	X	X	X		X				6,660	0	4,006	0	2,654	0	547	0	no
Youngstown State University	573,244	X	X	X			X				12,243	47	11,031	52	1,212	473	788	727	no

^a Actual amount is a "de-obligation" of \$24,756.

^b Enrollment information from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^c The Medical College of Ohio consists of the School of Medicine, School of Nursing, Graduate School, and School of Allied Health, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Medical College of Ohio on the line above.

^d Listed as six separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^e Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

OKLAHOMA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Bacone College	0	X					X				973	0	973	0	0	0	32	0	no		
Cameron University	3,500	X	X					X			5,329	1	4,791	1	538	7	267	13	no		
East Central University	0	X	X					X			4,189	0	3,408	0	781	0	239	0	no		
Langston University	1,973,117	X	X					X	1890	X	2,988	660	2,906	679	82	24,062	175	11,275	no		
Mid-America Bible College	0	X					X				613	0	613	0	0	0	46	0	no		
Northeastern State University	699,707	X	X			OPT		X			8,534	82	7,512	93	1,022	685	410	1,707	no		
Northwestern Oklahoma State University	0	X	X					X			2,032	0	1,778	0	254	0	126	0	no		
Oklahoma Baptist University	0	X	X				X				1,933	0	1,911	0	22	0	164	0	no		
Oklahoma Christian University of Science & Arts	0	X	X				X				1,840	0	1,747	0	93	0	167	0	no		
Oklahoma City University	0	X	X				X				3,724	0	1,860	0	1,864	0	244	0	no		
Oklahoma Panhandle State University	0	X						X			1,226	0	1,226	0	0	0	53	0	no		
Oklahoma State University	31,114,036	X	X	X	X	DO		X	X		28,892	1,077	24,120	1,290	4,772	6,520	1,272	24,461	no		
Oklahoma Wesleyan University	0	X					X				827	0	827	0	0	0	34	0	no		
Oral Roberts University	0	X	X	X			X				4,054	0	3,438	0	616	0	289	0	no		
Rogers State University	0	X						X			2,872	0	2,872	0	0	0	322	0	no		
St Gregory's University	0	X					X				813	0	813	0	0	0	67	0	no		
Southeastern Oklahoma State University	0	X	X					X			3,890	0	3,516	0	374	0	234	0	no		
Southern Nazarene University	0	X	X				X				2,082	0	1,755	0	327	0	81	0	no		
Southwestern Oklahoma State University	324,677	X	X					X			4,854	67	4,229	77	625	519	232	1,399	no		
University of Central Oklahoma	12,000	X	X					X			14,660	1	12,174	1	2,486	5	687	17	no		
University of Oklahoma	27,050,245	X	X	X				X			25,104	1,078	18,696	1,447	6,408	4,221	1,360	19,890	no		
University of Oklahoma Health Sciences Center	53,581,149	X	X	X		X		X			2,862	18,722	582	92,064	2,280	23,501	1,000	53,581	no		
<i>School of Medicine</i> ^a	32,103,443																				
University of Science & Arts of Oklahoma	0	X						X			1,456	0	1,456	0	0	0	94	0	no		
University of Tulsa	3,839,528	X	X	X			X				4,119	932	2,769	1,387	1,350	2,844	410	9,365	no		

^a The University of Oklahoma Health Sciences Center consists of the Graduate College, the College of Allied Health, the College of Dentistry, the College of Medicine, the College of Nursing, the College of Pharmacy, and the College of Public Health, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the University of Oklahoma Health Sciences Center on the line above. Information from <http://www.ouhsc.edu/>.

OREGON Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Concordia University-Portland		0	X	X			X			1,040	0	875	0	165	0	131	0	no	
Eastern Oregon University	500,000	X	X					X		2,971	168	2,805	178	166	3,012	113	4,425	no	
Eugene Bible College		0	X				X			179	0	179	0	0	0	19	0	no	
George Fox University		0	X	X			X			2,637	0	1,664	0	973	0	216	0	no	
Gutenberg College ^a		0	X				X			12	0	12	0	0	0	11	0	no	
Lewis & Clark College	237,910	X	X				X			2,947	81	1,682	141	1,265	188	336	708	no	
Linfield College		0	X	X			X			2,542	0	2,542	0	0	0	36	0	no	
Marylhurst University		0	X	X			X			937	0	680	0	257	0	192	0	no	
Mount Angel Seminary		0	X	X			X			155	0	48	0	107	0	16	0	no	
Multnomah Bible College & Seminary		0	X	X			X			840	0	587	0	253	0	70	0	no	
Northwest Christian College		0	X	X			X			480	0	409	0	71	0	20	0	no	
Oregon College of Oriental Medicine ^b	129,011	X				DAOM	X			201	642	0	0	201	642	28	4,608	no	
Oregon Health & Science University <i>School of Medicine</i>	166,774,546 118,142,774	X	X	X		X	X			1,976	84,400	634	263,051	1,342	124,273	1,853	90,002	no	
Oregon Institute of Technology	784,442	X	X				X			3,070	256	3,068	256	2	392,221	134	5,854	no	
Oregon State University	69,895,307	X	X	X	X		X	X		18,013	3,880	14,869	4,701	3,144	22,231	1,993	35,070	no	
Pacific Northwest College of Art		0	X				X			293	0	293	0	0	0	92	0	no	
Pacific University		0	X	X	X	OPT	X			2,293	0	1,169	0	1,124	0	283	0	no	
Portland State University	7,476,671	X	X	X			X			20,024	373	14,461	517	5,563	1,344	1,144	6,536	no	
Reed College	231,218	X	X				X			1,420	163	1,396	166	24	9,634	140	1,652	no	
Southern Oregon University	596,659	X	X				X			5,465	109	4,890	122	575	1,038	313	1,906	no	
University of Oregon	39,893,389	X	X	X			X			18,956	2,105	15,113	2,640	3,843	10,381	1,429	27,917	no	
University of Portland		0	X	X			X			3,087	0	2,573	0	514	0	253	0	no	
Warner Pacific College		0	X	X			X			571	0	566	0	5	0	57	0	no	
Western Baptist College		0	X				X			725	0	725	0	0	0	35	0	no	
Western Oregon University	985,000	X	X				X			4,876	202	4,337	227	539	1,827	401	2,456	no	
Western States Chiropractic College		0	X			DC	X			331	0	0	0	331	0	42	0	no	
Willamette University		0	X	X			X			2,437	0	1,773	0	664	0	229	0	no	

^a Faculty data is personal communication from Gutenberg College for the 2000-2001 academic year.

^b Though the federal funding is from FY 2002, note that the school matriculated its first class of students seeking a clinical Doctorate in Acupuncture and Oriental Medicine (DAOM) in July 2003. Degree information and faculty data from Oregon College of Oriental Medicine website <http://www.ocom.edu/Welcome/Faculty.html>.

PENNSYLVANIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		
																				Number
Albright College	0	X	X				X				1,814	0	1,814	0	0	134	0	no		
Allegheny College ^a	0	X					X				1,879	0	1,879	0	0	163	0	no		
Alvernia College	0	X	X				X				1,815	0	1,582	0	233	0	163	0	no	
American College	0	X					X				547	0	0	0	547	0	22	0	no	
Arcadia University	261,610	X	X	X			X				2,991	87	1,638	160	1,353	193	87	3,007	no	
Baptist Bible College	0	X	X	X			X				837	0	734	0	103	0	37	0	no	
Bloomsburg University of Pennsylvania	258,352	X	X					X			7,914	33	7,222	36	692	373	426	606	no	
Bryn Athyn College of the New Church ^b	0	X	X				X				129	0	129	0	0	0	47	0	no	
Bryn Mawr College	404,090	X	X	X			X				1,756	230	1,333	303	423	955	223	1,812	no	
Bucknell University	349,448	X	X				X				3,578	98	3,431	102	147	2,377	317	1,102	no	
Cabrini College	200,000	X	X				X				2,100	95	1,639	122	461	434	195	1,026	no	
California University of Pennsylvania	0	X	X					X			5,948	0	5,076	0	872	0	348	0	no	
Carlow College	0	X	X				X				1,898	0	1,623	0	275	0	183	0	no	
Carnegie Mellon University	81,445,898	X	X	X			X				8,588	9,484	5,310	15,338	3,278	24,846	1202	67,759	Software Engineering Institute	
Cedar Crest College	0	X					X				1,619	0	1,592	0	27	0	88	0	no	
Chatham College	0	X	X	X			X				1,065	0	589	0	476	0	162	0	no	
Chestnut Hill College	0	X	X	X			X				1,645	0	922	0	723	0	170	0	no	
Cheyney University	100,000	X	X					X		X	1,514	66	1,198	83	316	316	126	794	no	
Clarion University of Pennsylvania	95,087	X	X					X			6,271	15	5,812	16	459	207	376	253	no	
College Misericordia	0	X	X				X				1,851	0	1,726	0	125	0	209	0	no	
Curtis Institute of Music	0	X	X				X				162	0	129	0	33	0	83	0	no	
Delaware Valley College	0	X	X				X				1,956	0	1,900	0	56	0	164	0	no	
DeSales University	0	X	X				X				2,734	0	2,017	0	717	0	126	0	no	
Dickinson College	63,947	X	X				X				2,208	29	2,208	29	0	0	214	299	no	
Drexel University	28,915,312	X	X	X			X				13,546	2,135	11,019	2,624	2,527	11,443	1647	17,556	no	
<i>School of Medicine</i>	<i>15,610,040</i>																			
Duquesne University	2,144,631	X	X	X			X				9,451	227	5,404	397	4,047	530	856	2,505	no	
East Stroudsburg University of Pennsylvania	500,000	X	X					X			5,996	83	4,967	101	1,029	486	346	1,445	no	
Eastern College	415,012	X	X				X				3,054	136	2,075	200	979	424	280	1,482	no	
Edinboro University of Pennsylvania	0	X	X					X			7,498	0	6,684	0	814	0	422	0	no	
Elizabethtown College	0	X					X				1,902	0	1,902	0	0	0	209	0	no	
Franklin & Marshall College	136,545	X					X				1,887	72	1,887	72	0	0	196	697	no	
Gannon University	0	X	X	X			X				3,407	0	2,463	0	944	0	264	0	no	
Geneva College	29,228	X	X				X				2,174	13	1,829	16	345	85	179	163	no	
Gettysburg College	99,643	X	X				X				2,277	44	2,277	44	0	0	246	405	no	
Gratz College	0	X	X				X				813	0	21	0	592	0	17	0	no	
Grove City College	0	X	X				X				2,329	0	2,323	0	6	0	165	0	no	
Gwynedd Mercy College	0	X	X				X				2,177	0	1,900	0	277	0	69	0	no	
Haverford College in Pennsylvania	291,599	X					X				1,138	256	1,138	256	0	0	136	2,144	no	
Holy Family College	0	X	X				X				2,665	0	1,849	0	816	0	77	0	no	
Immaculata College	81,346	X	X	X			X				3,170	26	2,349	35	821	99	244	333	no	
Indiana University of Pennsylvania	673,432	X	X	X				X			13,457	50	11,763	57	1,694	398	822	819	no	
Juniata College	123,650	X					X				1,302	95	1,302	95	0	0	117	1,057	no	
Keystone College	150,000	X					X				1,373	109	1,373	109	0	0	185	811	no	
Kings College	0	X	X				X				2,226	0	2,068	0	158	0	157	0	no	
Kutztown University of Pennsylvania	0	X	X					X			8,268	0	7,293	0	975	0	424	0	no	

PENNSYLVANIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Lake Erie College of Osteopathic Medicine	0					DO	X				689	0	0	0	689	0	38	0	no
La Roche College	600,000	X	X				X				1,908	314	1,661	361	247	2,429	206	2,913	no
Lafayette College	642,819	X					X				2,330	276	2,330	276	0	0	201	3,198	no
Lancaster Bible College	0	X	X				X				815	0	710	0	105	0	34	0	no
La Salle University	0	X	X	X			X				5,422	0	3,902	0	1,520	0	463	0	no
Lebanon Valley College	0	X	X				X				2,117	0	1,920	0	197	0	178	0	no
Lehigh University	13,862,300	X	X	X			X				6,479	2,140	4,650	2,981	1,829	7,579	493	28,118	no
Lincoln University	862,764	X	X					X		X	1,871	461	1,438	600	433	1,993	161	5,359	no
Lock Haven University of Pennsylvania	0	X	X					X			4,252	0	4,081	0	171	0	253	0	no
Lycoming College	0	X					X				1,424	0	1,424	0	0	0	127	0	no
Mansfield University of Pennsylvania	0	X	X					X			3,303	0	3,019	0	284	0	212	0	no
Marywood University	0	X	X	X			X				2,925	0	1,668	0	1,257	0	288	0	no
Mercyhurst College	0	X	X				X				3,404	0	3,200	0	204	0	144	0	no
Messiah College	0	X					X				2,858	0	2,858	0	0	0	295	0	no
Millersville University of Pennsylvania	0	X	X					X			7,556	0	6,597	0	959	0	447	0	no
Moore College of Art & Design	0	X					X				612	0	612	0	0	0	103	0	no
Moravian College	0	X	X				X				1,924	0	1,710	0	214	0	198	0	no
Mount Aloysius College	0	X	X				X				1,151	0	1,151	0	0	0	129	0	no
Muhlenberg College	1,455,000	X					X				2,629	553	2,629	553	0	0	221	6,584	no
Neumann College	750,000	X	X				X				2,014	372	1,741	431	273	2,747	64	11,719	no
Peirce College	400,000	X					X				1,957	204	1,957	204	0	0	277	1,444	no
Pennsylvania College of Optometry	1,122,725	X	X	X		OPT	X				845	1,329	0	0	845	1,329	42	26,732	no
Pennsylvania State University																			
Abington	0	X					X				3,179	0	3,177	0	2	0	240	0	no
Altoona	0	X					X				3,823	0	3,813	0	10	0	270	0	no
Beaver	0	X	X				X				759	0	752	0	7	0	72	0	no
Behrend College, Erie	0	X	X				X				3,708	0	3,550	0	158	0	265	0	no
Berks	0	X					X				2,329	0	2,316	0	13	0	156	0	no
College of Medicine	41,218,351		X	X		X	X				649	63,511	0	0	649	63,511	611	67,460	no
School of Medicine	41,218,351																		
Commonwealth College *	0	X					X				13,959	0	13,959	0	0	0	630	0	no
Delaware County	0	X					X				1,649	0	1,646	0	3	0	123	0	no
Dickinson School of Law	0		X				X				541	0	0	0	541	0	41	0	no
DuBois	0	X	X				X				1,003	0	997	0	6	0	92	0	no
Fayette	0	X					X				1,128	0	1,128	0	0	0	110	0	no
Great Valley	0	X					X				1,687	0	0	0	1,687	0	114	0	no
Harrisburg	0	X	X	X			X				3,258	0	1,865	0	1,393	0	263	0	no
Hazleton	0	X					X				1,353	0	1,342	0	11	0	103	0	no
Lehigh Valley	0	X					X				697	0	685	0	12	0	64	0	no
McKeesport	0	X					X				951	0	941	0	10	0	87	0	no
New Kensington	0	X	X				X				987	0	979	0	8	0	102	0	no
Mont Alto	0	X					X				1,164	0	1,105	0	59	0	108	0	no
Pennsylvania College of Technology	0	X					X				5,538	0	5,538	0	0	0	411	0	no
Schuylkill	0	X					X				1,092	0	1,052	0	40	0	91	0	no
Shenango	0	X	X				X				985	0	984	0	1	0	95	0	no
University Park (main campus)	221,313,180	X	X	X			X	X			40,828	5,421	34,539	6,408	6,289	35,191	3,276	67,556	no
Wilkes-Barre	0	X					X				852	0	832	0	20	0	95	0	no

PENNSYLVANIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Pennsylvania State University (cont.)																			
Worthington Scranton		0	X								1,609	0	1,520	0	89	0	119	0	no
York		0	X								1,954	0	1,729	0	225	0	137	0	no
Philadelphia Biblical University		0	X	X			X				1,384	0	1,000	0	384	0	100	0	no
Philadelphia College of Osteopathic Medicine		0	X	X		DO		X			1,425	0	0	0	1,425	0	130	0	no
Philadelphia University	720,021	X	X				X				3,204	225	2,756	261	448	1,607	372	1,936	no
Point Park Morris College		0	X	X			X				2,964	0	2,639	0	325	0	397	0	no
Robert Morris College		0	X	X	X		X				4,724	0	3,818	0	906	0	269	0	no
Rosemont College		0	X	X			X				1,108	0	797	0	311	0	128	0	no
Saint Francis College	1,552,735	X	X				X				2,027	766	1,416	1,097	611	2,541	117	13,271	no
Saint Joseph's University		0	X	X	X		X				7,353	0	4,602	0	2,751	0	495	0	no
Saint Vincent College		0	X				X				1,222	0	1,222	0	0	0	109	0	no
Seton Hill College		0	X	X			X				1,370	0	1,128	0	242	0	128	0	no
Shippensburg University of Pennsylvania	200,000	X	X					X			7,193	28	6,238	32	955	209	404	495	no
Slippery Rock University of Pennsylvania	129,900	X	X					X			7,197	18	6,500	20	697	186	400	325	no
Susquehanna University	207,083	X					X				1,949	106	1,949	106	0	0	106	1,954	no
Swarthmore College	530,324	X					X				1,467	362	1,467	362	0	0	244	2,173	no
Temple University	44,025,932	X	X	X		X	X	X			29,872	1,474	19,606	2,246	10,266	4,289	2,712	16,234	no
School of Medicine	28,869,370																		
Thiel College		0	X				X				1,152	0	1,152	0	0	0	97	0	no
Thomas Jefferson University	80,137,024	X	X	X		X	X				2,248	35,648	771	103,939	1,477	54,257	785	102,085	no
School of Medicine	80,137,024																		
University of Pennsylvania	458,468,017	X	X	X	X	X	X				22,326	20,535	11,781	38,916	10,545	43,477	6,129	74,803	no
School of Medicine	340,142,057																		
University of Pittsburgh																			
Bradford		0	X					X			1,467	0	1,467	0	0	0	76	0	no
Greensburg		0	X					X			1,758	0	1,758	0	0	0	118	0	no
Johnstown		0	X					X			3,096	0	3,096	0	0	0	161	0	no
Pittsburgh (main campus)	336,901,314	X	X	X		X	X				26,710	12,613	17,798	18,929	8,912	37,803	4,517	74,585	no
School of Medicine	217,120,867																		
University of Scranton	58,807	X	X				X				4,608	13	4,010	15	598	98	377	156	no
University of the Arts		0	X	X			X				2,089	0	1,933	0	156	0	420	0	no
University of the Sciences in Philadelphia ^d		0	X	X	X		X				2,400	0	1,164	0	1,236	0	325	0	no
Ursinus College		0	X				X				1,324	0	1,324	0	0	0	179	0	no
Valley Forge Christian College		0	X				X				722	0	722	0	0	0	26	0	no
Villanova University	2,198,764	X	X	X			X				10,259	214	7,392	297	2,867	767	891	2,468	no
Washington and Jefferson College	585,616	X					X				1,240	472	1,240	472	0	0	112	5,229	no
Waynesburg College		0	X	X			X				1,790	0	1,459	0	331	0	144	0	no
West Chester University of Pennsylvania	511,355	X	X				X		X		12,244	42	10,220	50	2,024	253	765	668	no
Westminster College		0	X	X			X				1,921	0	1,658	0	263	0	148	0	no
Westminster Theological Seminary		0	X	X			X				686	0	0	0	686	0	25	0	no
Widener University ^e	963,610	X	X	X			X				5,153	187	2,953	326	2,200	438	586	1,644	no
Wilkes University	178,187	X	X				X				3,697	48	1,771	101	1,926	93	202	882	no
Wilson College	200,000	X					X				710	282	710	282	0	0	74	2,703	no
York College of Pennsylvania		0	X	X			X				5,293	0	5,119	0	174	0	426	0	no

PENNSYLVANIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator (Funds not included in totals)	
		BA/BS	MA/MS	PhD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
^a Actual amount is a de-obligation of \$23,884.																			
^b Enrollment data from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS.																			
^c All information from Pennsylvania State University Commonwealth College website: enrollment data at http://www.cwc.psu.edu/cwc/Students/students.html and faculty data at http://www.budget.psu.edu/factbook/HRDynamic/FullTimeCampusEmployees.asp?ReportCode=Rank&ReportType=Fac&YearCode=2003Humors .																			
^d Actual amount is a de-obligation of \$3,569.																			
^e Listed as two separate campuses in IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.																			

PUERTO RICO Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Carlos Albizu University-San Juan	367,820	X	X	X			X				824	446	205	1,794	619	594	19	19,359	no
Polytechnic University of Puerto Rico	47,500	X	X				X				5,408	9	4,895	10	513	93	239	199	no
Ponce School of Medicine	6,077,903	X	X	X			X				377	16,122	0	0	377	16,122	126	48,237	no
<i>School of Medicine</i>	6,077,903																		
Pontifical Catholic University of Puerto Rico ^a	857,971	X	X	X			X				10,166	84	7,931	108	2,235	384	313	2,741	no
Sistema Ana G Méndez																			
Universidad del Este	197,602	X	X				X				8,130	24	8,105	24	25	7,904	320	618	no
Universidad Metropolitana	258,250	X	X				X				7,094	36	6,088	42	1,006	257	291	887	no
Universidad del Turabo	192,998	X	X				X				9,335	21	8,045	24	1,290	150	305	633	no
Universidad Central del Caribe	6,666,018	X				X	X				337	19,780	79	84,380	258	25,837	43	155,024	no
<i>School of Medicine</i>	6,666,018																		
Universidad Interamericana de Puerto Rico																			
Aguadilla	91,205	X					X				3,800	24	3,800	24	0	0	208	438	no
Arecibo	0	X	X				X				4,124	0	3,990	0	134	0	236	0	no
Barranquitas	0	X					X				1,817	0	1,817	0	0	0	101	0	no
Bayamón	0	X					X				5,375	0	5,375	0	0	0	285	0	no
Fajardo	0	X					X				2,105	0	2,105	0	0	0	122	0	no
Guayama	0	X	X				X				2,056	0	2,040	0	16	0	139	0	no
Metropolitan	268,419	X	X	X			X				10,526	26	7,252	37	3,274	82	522	514	no
Ponce	0	X					X				4,628	0	4,628	0	0	0	221	0	no
San Germán	0	X	X	X			X				5,742	0	4,810	0	932	0	309	0	no
School of Optometry	0					OPT	X				172	0	0	0	172	0	37	0	no
University of Puerto Rico System																			
Aguadilla	0	X					X				3,276	0	3,276	0	0	0	161	0	no
Arecibo	0	X					X				4,667	0	4,667	0	0	0	263	0	no
Bayamón	0	X					X				5,811	0	5,811	0	0	0	383	0	no
Carolina	0	X					X				4,377	0	4,377	0	0	0	130	0	no
Cayey University College	471,630	X					X				4,019	117	4,019	117	0	0	229	2,051	no
Humacao	1,543,290	X					X				4,476	345	4,476	345	0	0	326	5,434	no
Mayaguez	12,279,349	X	X	X			X	X			12,244	1,003	11,351	1,082	893	13,751	668	16,136	no
Medical Sciences (San Juan)	34,760,258	X	X	X		X	X				2,708	12,836	904	38,452	1,804	19,268	605	57,455	no
<i>School of Medicine ^b</i>	27,693,231																		
Ponce	0	X					X				4,070	0	4,070	0	0	0	178	0	no
Rio Piedras	24,196,017	X	X	X			X				21,561	1,122	17,787	1,360	3,774	6,411	1,461	16,561	no
Utua	0	X					X				1,621	0	1,621	0	0	0	95	0	no
Universidad del Sagrado Corazon	230,000	X	X				X				5,187	44	4,684	49	503	457	343	671	no

NOTE: All enrollment information for Fall 2001 from IPEDS College Opportunities On-Line. Enrollment information for Puerto Rico not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.
^a Listed as three separate campuses in IPEDS College Opportunities On-Line.

^b The University of Puerto Rico Medical Sciences Campus consists of the School of Medicine, School of Public Health, School of Dentistry, and School of Pharmacy, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the University of Puerto Rico Medical Sciences unit on the line above. Information from <http://www.rcm.upr.edu/2C-GenInf.html>.

RHODE ISLAND Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HECU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	M/AMS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Brown University	75,200,770	X	X	X	X	X				7,774	9,673	5,999	12,536	1,775	42,367	713	105,471	no	
<i>School of Medicine</i>	<i>35,250,077</i>																		
Bryant College	0	X	X			X				3,494	0	3,007	0	487	0	217	0	no	
Johnson & Wales University	0	X	X	X		X				9,261	0	8,635	0	626	0	403	0	no	
New England Institute of Technology	0	X				X				2,631	0	2,631	0	0	0	227	0	no	
Providence College	0	X	X			X				5,330	0	4,341	0	989	0	552	0	no	
Rhode Island College	0	X	X	X			X			8,662	0	7,060	0	1,602	0	366	0	no	
Rhode Island School of Design	0	X	X			X				2,119	0	1,845	0	274	0	429	0	no	
Roger Williams University	900,000	X	X			X				4,663	193	4,031	223	632	1,424	346	2,601	no	
Salve Regina University	1,100,000	X	X	X		X				2,271	484	1,907	577	364	3,022	270	4,074	no	
University of Rhode Island	266,814,667	X	X	X			X	X		14,264	18,705	10,579	25,221	3,685	72,406	720	370,576	no	

SOUTH CAROLINA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted				Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator	
		BA/BS	MA/MS	PHD	DVM					MD	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number		Federal R&D Funds Per Capita
Allen University		0	X						X	1,226	0	1,226	0	0	0	36	0	no	
Anderson College		0	X							1,450	0	1,450	0	0	0	109	0	no	
Benedict College	972,394	X							X	2,938	331	2,938	331	0	0	147	6,615	no	
Bob Jones University ^a		0	X	X	X					4,150	0	3,531	0	619	0	416	0	no	
Charleston Southern University		0	X	X						2,682	0	2,444	0	238	0	213	0	no	
The Citadel		0	X	X					X	4,001	0	2,100	0	1,901	0	150	0	no	
Claffin University	143,200	X	X						X	1,460	98	1,460	98	0	0	82	1,746	no	
Clemson University	27,271,470	X	X	X					X	17,101	1,595	13,975	1,951	3,126	8,724	1,235	22,082	no	
Coastal Carolina University	212,464	X	X						X	4,965	43	4,771	45	194	1,095	311	683	no	
Coker College		0	X							1,089	0	1,089	0	0	0	118	0	no	
College of Charleston	2,136,579	X	X						X	11,617	184	9,934	215	1,683	1,270	454	4,706	no	
Columbia College		0	X	X						1,476	0	1,285	0	191	0	153	0	no	
Columbia International University		0	X	X	X					1,052	0	642	0	410	0	60	0	no	
Converse College		0	X	X						1,437	0	720	0	717	0	76	0	no	
Erskine College		0	X	X	X					948	0	588	0	360	0	74	0	no	
Francis Marion University	179,148	X	X						X	3,513	51	2,822	63	691	259	198	905	no	
Furman University	491,933	X	X							3,252	151	2,767	178	485	1,014	248	1,984	no	
Johnson & Wales University-Charleston		0	X							1,381	0	1,381	0	0	0	53	0	no	
Lander University		0	X	X					X	2,710	0	2,505	0	205	0	169	0	no	
Limestone College		0	X							2,067	0	2,067	0	0	0	54	0	no	
Medical University of South Carolina <i>School of Medicine</i>	92,117,028 85,323,004	X	X	X		X				2,297	40,103	400	230,293	1,897	48,559	1,143	80,592	no	
Morris College		0	X						X	986	0	986	0	0	0	60	0	no	
Newberry College		0	X							721	0	721	0	0	0	46	0	no	
North Greenville College		0	X							1,378	0	1,378	0	0	0	108	0	no	
Presbyterian College		0	X							1,184	0	1,184	0	0	0	85	0	no	
Sherman College of Straight Chiropractic		0				DC	X			329	0	0	0	329	0	36	0	no	
South Carolina State University	3,918,911	X	X	X					X	4,467	877	3,487	1,124	980	3,999	227	17,264	no	
Southern Wesleyan University		0	X	X						2,166	0	1,996	0	170	0	107	0	no	
University of South Carolina																			
Aiken		0	X	X					X	3,282	0	3,139	0	143	0	229	0	no	
Columbia	35,237,886	X	X	X		X			X	23,000	1,532	15,506	2,273	7,494	4,702	2,005	17,575	no	
<i>School of Medicine</i>	3,248,573																		
Spartanburg		0	X	X					X	3,993	0	3,899	0	94	0	287	0	no	
Voorhees College	389,445	X							X	756	515	756	515	0	0	38	10,249	no	
Winthrop University		0	X	X					X	6,306	0	4,838	0	1,468	0	267	0	no	
Wofford College		0	X							1,106	0	1,106	0	0	0	87	0	no	

NOTE: The data above does not include the awards totalling \$4,408,009 that were awarded to the South Carolina Universities Research and Education Foundation, which is a consortium of public universities and colleges located in South Carolina.

^a Enrollment information from IPEDS College Opportunities On-Line. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001. Faculty data provide via personal communication with the Admissions Office at Bob Jones University.

SOUTH DAKOTA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted						Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD						Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Augustana College	135,000	X	X				X					1,807	75	1,774	76	33	4,091	113	1,195	no
Black Hills State University	350,000	X	X					X				3,921	89	3,431	102	490	714	121	2,893	no
Dakota State University	0	X	X						X			2,013	0	1,841	0	172	0	114	0	no
Dakota Wesleyan University	0	X					X					687	0	687	0	0	0	61	0	no
Mount Marty College	0	X	X				X					1,168	0	1,069	0	99	0	102	0	no
National American University	0	X	X				X					1,379	0	1,347	0	32	0	46	0	no
Northern State University	0	X	X					X				3,088	0	2,649	0	439	0	95	0	no
Oglala Lakota College	0	X	X					X	X			1,270	0	1,156	0	114	0	204	0	no
Presentation College	0	X					X					615	0	615	0	0	0	46	0	no
Sinte Gleska University	0	X	X					X	X			895	0	848	0	47	0	187	0	no
South Dakota School of Mines & Technology	1,988,341	X	X	X				X				2,425	820	2,074	959	351	5,665	154	12,911	no
South Dakota State University	7,450,501	X	X	X				X	X			9,260	805	7,817	953	1,443	5,163	586	12,714	no
University of Sioux Falls	0	X	X				X					1,332	0	1,122	0	210	0	96	0	no
University of South Dakota	7,444,350	X	X	X		X		X				8,569	869	5,363	1,388	3,206	2,322	294	25,321	no
<i>School of Medicine</i>	<i>6,877,606</i>																			

TENNESSEE Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Aquinas College		0	X				X				626	0	626	0	0	78	0	no	
Austin Peay State University		0	X	X				X			7,033	0	6,617	0	416	0	280	0	no
Baptist Memorial College of Health Sciences		0	X	X							482	0	482	0	0	44	0	no	
Belmont University		0	X	X	X			X			3,129	0	2,617	0	512	0	379	0	no
Bethel College		0	X	X				X			945	0	840	0	105	0	44	0	no
Bryan College		0	X					X			611	0	611	0	0	61	0	no	
Carson-Newman College		0	X	X				X			2,195	0	1,991	0	204	0	128	0	no
Christian Brothers University	408,000	0	X	X				X			2,123	192	1,659	246	464	879	187	2,182	no
Church of God Theological Seminary		0	X	X				X			247	0	0	0	247	0	20	0	no
Crichton College		0	X					X			1,043	0	1,043	0	0	57	0	no	
Cumberland University		0	X	X				X			1,471	0	908	0	563	0	127	0	no
East Tennessee State University	2,759,595	X	X	X	X		X				11,331	244	9,328	296	2,003	1,378	930	2,967	no
<i>School of Medicine</i>	<i>2,541,027</i>																		
Fisk University	1,830,284	X	X				X		X		845	2,166	819	2,235	26	70,396	61	30,005	no
Freed-Hardeman University		0	X	X				X			1,870	0	1,414	0	456	0	97	0	no
Johnson Bible College		0	X	X				X			678	0	588	0	90	0	39	0	no
King College		0	X	X				X			684	0	669	0	15	0	68	0	no
Knoxville College ^a		0	X					X	X		300	0	300	0	0	38	0	no	
Lambuth University		0	X					X			903	0	903	0	0	77	0	no	
Lane College		0	X					X	X		675	0	675	0	0	114	0	no	
Lee University		0	X	X				X			3,511	0	3,325	0	186	0	241	0	no
LeMoyne-Owen College		0	X					X	X		734	0	734	0	0	59	0	no	
Lincoln Memorial University		0	X	X				X			1,774	0	942	0	832	0	135	0	no
Lipscomb University		0	X	X				X			2,621	0	2,396	0	225	0	115	0	no
Martin Methodist College		0	X					X			631	0	631	0	0	37	0	no	
Manyville College		0	X					X			1,026	0	1,026	0	0	87	0	no	
Meharry Medical College	39,293,507	0	X	X	X	X	X		X		885	44,399	164	239,595	721	54,499	239	164,408	no
<i>School of Medicine</i>	<i>21,981,183</i>																		
Memphis College of Art		0	X	X				X			299	0	265	0	34	0	17	0	no
Middle Tennessee State University	1,504,761	X	X	X				X			20,073	75	18,130	83	1,943	774	963	1,563	no
Milligan College		0	X	X				X			899	0	789	0	110	0	64	0	no
Rhodes College	172,927	X	X					X			1,551	111	1,535	113	16	10,808	205	844	no
Southern Adventist University		0	X	X				X			2,201	0	2,099	0	102	0	126	0	no
Southern College of Optometry		0				OPT	X				480	0	0	0	480	0	51	0	no
Tennessee State University	9,885,108	X	X	X				X	1890	X	8,664	1,141	7,060	1,400	1,604	6,163	540	18,306	no
Tennessee Technological University	522,824	X	X	X				X			8,653	60	7,099	74	1,554	336	506	1,033	no
Tennessee Temple University		0	X	X				X			699	0	682	0	17	0	30	0	no
Tennessee Wesleyan College		0	X					X			786	0	786	0	0	44	0	no	
Trevecca Nazarene University		0	X	X	X			X			1,819	0	1,159	0	660	0	71	0	no
Tusculum College		0	X	X				X			1,794	0	1,557	0	237	0	58	0	no
Union University		0	X	X	X			X			2,544	0	1,965	0	579	0	227	0	no
University of Memphis	12,076,305	X	X	X				X			20,332	594	15,612	774	4,720	2,559	1,133	10,659	no
University of Tennessee System																			
Chattanooga	193,974	X	X					X			8,485	23	7,105	27	1,380	141	549	353	no
Knoxville ^b	50,970,117	X	X	X	X			X	X		26,033	1,958	20,124	2,533	5,909	8,626	2,304	22,122	no
Martin		0	X	X				X			5,954	0	5,532	0	422	0	210	0	no
Health Science Center (Memphis)	38,809,355	X	X	X	X	X	X				2,011	19,299	112	346,512	1,899	20,437	147	264,009	no
<i>School of Medicine</i>	<i>36,888,853</i>																		

TENNESSEE Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of Tennessee System (cont.)																			
Space Institute (Tullahoma) ^c	58,700	X	X	X			X				268	219	0	0	268	219	33	1,779	no
University of the South	290,296	X	X	X			X				1,442	201	1,329	218	113	2,569	142	2,044	no
Vanderbilt University	223,742,350	X	X	X	X	X					10,338	21,643	6,077	36,818	4,261	52,509	2,487	89,965	no
School of Medicine	172,685,765																		
^a Student enrollment data from Peterson's Black American Colleges and Universities http://www.petersons.com/blackcolleges/profiles/knoxville.asp?sponsor=13 . Faculty data from Knoxville College website http://www.knoxvillecollege.edu/framesetaroundtown.htm .																			
^b Includes an award going to the Nashville extension of the Knoxville campus.																			
^c Faculty data from University of Tennessee Space Institute website http://www.utsi.edu/Faculty/facindex.html .																			

TEXAS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Abilene Christian University	160,000	X	X	X			X				4,673	34	4,234	38	439	364	250	640	no
Amberton University	0	X	X				X				1,675	0	657	0	1,018	0	59	0	no
Angelo State University	198,802	X	X				X				6,266	32	5,833	34	433	459	276	720	no
Arlington Baptist College	0	X					X				240	0	240	0	0	0	22	0	no
Art Institute of Dallas	0	X					X				1,424	0	1,424	0	0	0	78	0	no
Austin College	16,000	X	X				X				1,261	13	1,227	13	34	471	99	162	no
Austin Presbyterian Theological Seminary	0	X	X				X				259	0	0	0	259	0	16	0	no
Baylor College of Medicine <i>School of Medicine</i> *	273,931,037 272,426,074	X	X			X	X				1,211	226,202	0	0	1,211	226,202	1,547	177,072	no
Baylor University	760,612	X	X	X			X				14,221	53	12,190	62	2,031	375	841	904	no
College of Saint Thomas More	0	X					X				14	0	14	0	0	0	8	0	no
Concordia University-Austin	0	X	X				X				844	0	799	0	45	0	83	0	no
Criswell College	0	X	X				X				449	0	335	0	114	0	36	0	no
Dallas Baptist University	0	X	X				X				4,302	0	3,340	0	962	0	81	0	no
Dallas Christian College	0	X					X				281	0	281	0	0	0	34	0	no
Dallas Theological Seminary	0	X	X				X				1,607	0	0	0	1,607	0	58	0	no
DeVry University-Irving	0	X	X				X				3,569	0	3,569	0	0	0	174	0	no
East Texas Baptist University	0	X					X				1,509	0	1,509	0	0	0	107	0	no
Episcopal Theological Seminary of the Southwest	0	X					X				113	0	0	0	113	0	9	0	no
Hardin-Simmons University	0	X	X	X			X				2,276	0	1,902	0	374	0	157	0	no
Houston Baptist University	0	X	X				X				2,829	0	1,953	0	876	0	129	0	no
Howard Payne University	0	X					X				1,521	0	1,521	0	0	0	134	0	no
Huston-Tillotson College	0	X					X		X		618	0	618	0	0	0	56	0	no
Institute for Christian Studies ^c	0	X	X				X				86	0	48	0	38	0	11	0	no
Jarvis Christian College	37,800	X					X		X		571	66	571	66	0	0	41	922	no
Lamar University	2,097,915	X	X	X			X				11,214	187	10,271	204	943	2,225	546	3,842	no
LeTourneau University	92,716	X	X				X				3,098	30	2,807	33	291	319	309	300	no
Lubbock Christian University	0	X	X				X				1,823	0	1,701	0	122	0	80	0	no
McMurry University	56,125	X					X				1,378	41	1,378	41	0	0	110	510	no
Midwestern State University	0	X	X				X				5,969	0	5,288	0	681	0	295	0	no
Northwood University	0	X					X				1,114	0	1,114	0	0	0	58	0	no
Our Lady of the Lake University	78,654	X	X	X			X				3,324	24	2,196	36	1,128	70	264	298	no
Parker College of Chiropractic	0					DC	X				694	0	0	0	694	0	62	0	no
Paul Quinn College	100,000	X					X		X		828	121	828	121	0	0	49	2,041	no
Rice University	25,158,055	X	X	X			X				4,367	5,761	2,728	9,222	1,639	15,350	631	39,870	no
St Edward's University	0	X	X				X				4,151	0	3,369	0	782	0	300	0	no
Saint Mary's University of San Antonio	217,486	X	X	X			X				4,135	53	2,613	83	1,522	143	337	645	no
Sam Houston State University	998,057	X	X	X			X				12,996	77	11,273	89	1,723	579	541	1,845	no
Schreiner College	0	X	X				X				806	0	791	0	15	0	84	0	no
Southern Methodist University	5,070,715	X	X	X			X				10,266	494	5,836	869	4,430	1,145	732	6,927	no
Southwest Texas State University	3,179,769	X	X	X			X				23,517	135	20,179	158	3,338	953	1,052	3,023	no
Southwestern Adventist University	0	X	X				X				1,191	0	1,163	0	28	0	90	0	no
Southwestern Assemblies of God University	0	X	X				X				1,738	0	1,607	0	131	0	86	0	no
Southwestern Baptist Theological Seminary ^d	0	X	X				X				3,149	0	298	0	2,851	0	96	0	no
Southwestern Christian College	0	X					X		X		197	0	197	0	0	0	18	0	no
Southwestern University	0	X					X				1,320	0	1,320	0	0	0	154	0	no
Stephen F Austin State University	630,656	X	X	X			X				11,569	55	10,300	61	1,269	497	534	1,181	no

TEXAS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Sul Ross State University	0	X	X					X			2,798	0	1,993	0	805	0	156	0	no
Texas A&M University System																			
College Station	94,889,514	X	X	X	X			X	X		44,618	2,127	36,603	2,592	8,015	11,839	2,024	46,882	no
Commerce	0	X	X	X				X			7,988	0	4,498	0	3,490	0	338	0	no
Corpus Christi	403,940	X	X	X				X			7,369	55	5,966	68	1,403	288	295	1,369	no
Galveston	0	X	X					X			1,366	0	1,366	0	0	0	77	0	no
Health Science Center * <i>School of Medicine</i>	13,922,263 13,922,263	X	X	X	X			X			973	14,309	62	224,553	911	15,282	221	62,997	no
Kingsville	3,029,129	X	X	X				X			6,148	493	5,003	605	1,145	2,646	315	9,616	no
Prairie View A&M University	7,887,608	X	X	X				X	1890	X	6,747	1,169	5,387	1,464	1,360	5,800	262	30,105	no
Tarleton State University	1,040,780	X	X					X			8,027	130	6,715	155	1,312	793	428	2,432	no
Texarkana	0	X	X					X			1,243	0	845	0	398	0	51	0	no
Texas A&M International University (Laredo)	638,358	X	X					X			3,373	189	2,609	245	764	836	161	3,965	no
West Texas A&M University	0	X	X					X			6,675	0	5,395	0	1,280	0	232	0	no
Texas Chiropractic College	0	X				DC	X				398	0	0	0	398	0	35	0	no
Texas Christian University	2,090,695	X	X	X				X			8,054	260	6,885	304	1,169	1,788	405	5,162	no
Texas College	99,785	X						X		X	511	195	511	195	0	0	36	2,772	no
Texas Lutheran University	0	X						X			1,473	0	1,473	0	0	0	129	0	no
Texas Southern University	2,561,198	X	X	X				X		X	8,119	315	6,485	395	1,634	1,567	291	8,801	no
Texas Tech University	14,044,231	X	X	X				X			25,573	549	21,269	660	4,304	3,263	1,216	11,550	no
Texas Tech University-Health Sciences Center <i>School of Medicine</i>	8,985,562 8,381,658	X	X	X	X			X			1,788	5,025	463	19,407	1,325	6,782	777	11,564	no
Texas Wesleyan University	969,000	X	X					X			2,939	330	1,714	565	1,225	791	236	4,106	no
Texas Woman's University	218,015	X	X	X				X			7,928	27	4,405	49	3,523	62	443	492	no
Trinity University	212,306	X	X					X			2,589	82	2,383	89	206	1,031	314	676	no
University of Dallas	0	X	X	X				X			3,518	0	1,255	0	2,263	0	243	0	no
University of Houston System																			
Houston (main campus)	13,505,363	X	X	X		OPT		X			33,007	409	25,230	535	7,777	1,737	2,039	6,624	no
Clear Lake	4,172,832	X	X					X			7,738	539	4,128	1,011	3,610	1,156	246	16,963	no
Downtown	14,792,069	X	X					X			9,704	1,524	9,643	1,534	61	242,493	295	50,143	no
Victoria	0	X	X					X			1,927	0	893	0	1,034	0	91	0	no
University of Mary Hardin-Baylor	0	X	X					X			2,624	0	2,434	0	190	0	326	0	no
University of North Texas System																			
Denton (main campus)	3,388,494	X	X	X				X			27,858	122	21,675	156	6,183	548	1,111	3,050	no
Health Science Center at Fort Worth	6,262,646	X	X	X		DO		X			821	7,628	16	391,415	805	7,780	202	31,003	no
University of Saint Thomas	0	X	X	X				X			4,288	0	1,836	0	2,452	0	239	0	no
University of Texas System																			
Arlington	5,884,347	X	X	X				X			21,180	278	16,329	360	4,851	1,213	992	5,932	no
Austin	140,822,610	X	X	X				X			50,616	2,782	38,609	3,647	12,007	11,728	3,124	45,078	no
Brownsville	900,797	X	X					X			9,373	96	8,607	105	766	1,176	621	1,451	no
Dallas	12,375,854	X	X	X				X			12,454	994	7,490	1,652	4,964	2,493	1,037	11,934	no
El Paso	11,588,248	X	X	X				X			16,220	714	13,642	849	2,578	4,495	799	14,503	no
Pan American	3,184,600	X	X	X				X			13,640	233	11,971	266	1,669	1,908	537	5,930	no
Permian Basin	0	X	X					X			2,409	0	1,780	0	629	0	125	0	no
San Antonio	8,742,507	X	X	X				X			19,881	440	16,856	519	3,025	2,890	803	10,887	no
Tyler	2,553,428	X	X					X			3,728	685	2,696	947	1,032	2,474	274	9,319	no
Health Science Center-Houston <i>School of Medicine</i>	101,688,198 77,354,824	X	X	X	X			X			3,284	30,965	332	306,290	2,952	34,447	1,037	98,060	no

TEXAS Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of Texas System (cont.)																			
Health Science Center-San Antonio <i>School of Medicine</i> ^a	81,405,984 70,927,736	X	X	X		X					2,665	30,546	896	90,855	1,769	46,018	1,348	60,390	no
MD Anderson Cancer Center	137,474,907	X					X				48	2,864,061	48	2,864,061	0	0	8	17,184,363	no
Medical Branch-Galveston <i>School of Medicine</i> ^c	80,894,637 78,144,249	X	X	X		X		X			1,927	41,980	562	143,941	1,365	59,263	1,578	51,264	no
Southwestern Medical Center at Dallas <i>School of Medicine</i> ^d	162,647,874 162,430,979	X	X	X		X		X			1,554	104,664	215	756,502	1,339	121,470	1,662	97,863	no
University of the Incarnate Word	551,271	X	X	X			X				4,283	129	3,519	157	764	722	391	1,410	no
Wayland Baptist University	0	X	X				X				5,569	0	5,028	0	541	0	410	0	no
Wiley College	0	X					X		X		584	0	584	0	0	0	47	0	no

^a The Baylor College of Medicine consists of the Medical School, the Division of Allied Health Sciences, and the Graduate School of Biomedical Sciences, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Baylor College of Medicine on the line above.

^b Enrollment and Faculty information from CollegeView.com. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001.

^c In the fall of 2001, the Institute for Christian Studies became the Austin Graduate School of Theology.

^d Faculty data from CollegeView.com.

^e Includes the Baylor College of Dentistry.

^f The Texas Tech University - Health Sciences Center consists of the School of Medicine, the School of Allied Health, the School of Nursing, the School of Pharmacy, and the Graduate School of Biomedical Sciences, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Texas Tech University - Health Sciences Center on the line above.

^g The University of Texas Health Science Center - Houston consists of the School of Medicine, the Graduate School of Biomedical Sciences, and the Program for the Master of Science in Clinical Research, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Health Science Center - Houston on the line above.

^h The University of Texas Health Science Center - San Antonio consists of the School of Medicine, the Dental School, the Graduate School of Biomedical Sciences, the School of Allied Health Sciences, the School of Nursing, as well as the Affiliated Schools and Colleges of Pharmacy and Public Health, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Health Science Center - San Antonio on the line above.

ⁱ The University of Texas Medical Branch - Galveston consists of the School of Medicine, the School of Nursing, the School of Allied Health Sciences, and the Graduate School of Biomedical Sciences, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Medical Branch - Galveston on the line above.

^j The University of Texas Southwestern Medical Center at Dallas consists of the Medical School, the Allied Health Sciences School, and the Graduate School of Biomedical Sciences, all of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Southwestern Medical Center at Dallas on the line above.

UTAH Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HECU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Brigham Young University	7,497,029	X	X	X			X			32,771	229	29,815	251	2,956	2,536	1,333	5,624	no	
Southern Utah University	0	X	X				X			6,095	0	5,884	0	211	0	291	0	no	
University of Utah <i>School of Medicine</i>	154,795,096 <i>94,336,624</i>	X	X	X		X	X			27,668	5,595	22,180	6,979	5,488	28,206	2,319	66,751	no	
Utah State University	52,797,411	X	X	X			X	X		23,001	2,295	19,295	2,736	3,706	14,246	790	66,832	no	
Utah Valley State College	102,068	X					X			22,609	5	22,609	5	0	0	1,205	85	no	
Weber State University	150,000	X	X				X			16,873	9	16,619	9	254	591	703	213	no	
Westminster College	0	X	X			X				2,474	0	1,979	0	495	0	244	0	no	

VERMONT Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Bennington College	0	X	X				X				673	0	537	0	136	0	113	0	no		
Burlington College	0	X					X				234	0	234	0	0	0	61	0	no		
Castleton State University	0	X	X					X			1,656	0	1,542	0	114	0	85	0	no		
Champlain College	0	X	X				X				2,539	0	2,539	0	0	0	194	0	no		
College of St Joseph	0	X	X				X				482	0	313	0	169	0	55	0	no		
Goddard College	0	X	X				X				617	0	317	0	300	0	87	0	no		
Green Mountain College	0	X					X				659	0	659	0	0	0	63	0	no		
Johnson State College	0	X	X					X			1,590	0	1,387	0	203	0	56	0	no		
Lyndon State College	0	X	X					X			1,267	0	1,244	0	23	0	56	0	no		
Marlboro College	0	X	X				X				426	0	331	0	95	0	37	0	no		
Middlebury College	2,136,543	X	X	X			X				2,334	915	2,328	918	6	356,091	284	7,523	no		
Norwich University	0	X	X				X				2,512	0	2,028	0	484	0	116	0	no		
Saint Michael's College	0	X	X				X				2,630	0	2,021	0	609	0	217	0	no		
School for International Training	0		X				X				540	0	0	0	540	0	32	0	no		
Southern Vermont College	0	X					X				456	0	456	0	0	0	44	0	no		
University of Vermont	71,957,411	X	X	X		X		X	X		10,078	7,140	8,589	8,378	1,489	48,326	1177	61,136	no		
<i>School of Medicine</i>	55,148,661																				
Vermont Technical College	0	X						X			1,272	0	1,272	0	0	0	72	0	no		

VIRGINIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Averett College		0	X	X			X				2,396	0	1,763	0	633	0	244	0	no
Bluefield College		0	X				X				851	0	851	0	0	0	103	0	no
Bridgewater College		0	X				X				1,260	0	1,260	0	0	0	96	0	no
Christendom College *		0	X	X			X				339	0	256	0	83	0	33	0	no
Christopher Newport University	1,609,743	X	X					X			5,388	299	5,158	312	230	6,999	315	5,110	no
College of Health Sciences		0	X				X				648	0	648	0	0	0	90	0	no
College of William and Mary	13,277,563	X	X	X				X			7,489	1,773	5,604	2,369	1,885	7,044	725	18,314	no
Eastern Mennonite University		0	X	X			X				1,304	0	1,020	0	284	0	145	0	no
Eastern Virginia Medical School	5,956,505	X				X	X				645	9,235	15	397,100	630	9,455	212	28,097	no
<i>School of Medicine</i>	5,956,505																		
Edward Via Virginia College of Osteopathic Medicine *		0				DO	X				150	0	150	0	0	0	0	0	no
Emory & Henry College		0	X	X			X				1,079	0	989	0	90	0	90	0	no
Ferrum College		0	X				X				920	0	920	0	0	0	87	0	no
George Mason University	26,284,574	X	X	X				X			24,897	1,056	15,802	1,663	9,095	2,890	1,658	15,853	no
Hampden-Sydney College		0	X	X			X				1,026	0	1,026	0	0	0	103	0	no
Hampton University	10,128,090	X	X	X			X		X		5,787	1,750	4,965	2,040	822	12,321	393	25,771	no
Hollins University		0	X	X			X				1,091	0	818	0	273	0	118	0	no
Institute of Textile Technology		0	X				X				17	0	0	0	17	0	12	0	no
James Madison University	1,231,493	X	X	X				X			15,562	79	14,590	84	972	1,267	938	1,313	no
Liberty University	123,529	X	X	X			X				6,162	20	5,391	23	771	160	266	464	no
Longwood University		0	X	X				X			4,114	0	3,560	0	554	0	221	0	no
Lynchburg College	60,098	X	X				X				1,937	31	1,733	35	204	295	194	310	no
Marine Corps University *		0	X					X			270	0	0	0	270	0	31	0	no
Mary Baldwin College	32,400	X	X				X				1,564	21	1,489	22	75	432	155	209	no
Marymount University		0	X	X			X				3,475	0	2,041	0	1,434	0	344	0	no
Mary Washington College	67,227	X	X					X			4,481	15	4,171	16	310	217	297	226	no
Norfolk State University	3,127,852	X	X	X				X		X	6,721	465	5,963	525	758	4,126	455	6,874	no
Old Dominion University	14,858,665	X	X	X				X			19,627	757	13,098	1,134	6,529	2,276	934	15,909	no
Radford University	57,048	X	X					X			9,142	6	8,061	7	1,081	53	551	104	no
Randolph-Macon College		0	X				X				1,150	0	1,150	0	0	0	137	0	no
Randolph-Macon Woman's College		0	X				X				727	0	727	0	0	0	96	0	no
Regent University	150,000	X	X	X			X				2,689	56	56	2,679	2,633	57	120	1,250	no
Roanoke College		0	X				X				1,790	0	1,790	0	0	0	206	0	no
Saint Paul's College		0	X				X		X		555	0	555	0	0	0	43	0	no
Shenandoah University	400,000	X	X	X			X				2,451	163	1,361	294	1,090	367	358	1,117	no
Southern Virginia College		0	X				X				445	0	445	0	0	0	29	0	no
Sweet Briar College	354,066	X					X				738	480	738	480	0	0	116	3,052	no
University of Richmond	331,348	X	X	X			X				4,369	76	3,663	90	706	469	474	699	no
University of Virginia																			
Charlottesville	167,559,784	X	X	X		X	X				22,739	7,369	13,764	12,174	8,975	18,670	1,265	132,458	no
<i>School of Medicine</i>	113,855,400																		
College at Wise		0	X				X				1,480	0	1,480	0	0	0	101	0	no
Virginia Commonwealth University	79,317,379	X	X	X		X	X				25,001	3,173	17,148	4,625	7,853	10,100	2,662	29,796	no
<i>School of Medicine</i>	52,359,055																		
Virginia Interment College		0	X				X				989	0	989	0	0	0	133	0	no
Virginia Military Institute		0	X					X			1,311	0	1,311	0	0	0	144	0	no
Virginia Polytechnic Institute and State University	55,767,661	X	X	X	X		X	X			28,203	1,977	21,593	2,583	6,610	8,437	2,393	23,304	no

VIRGINIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Virginia State University	2,774,001	X	X				X	1890	X	4,638	598	3,853	720	785	3,534	300	9,247	no			
Virginia Union University	378,506	X	X	X			X		X	1,712	221	1,377	275	335	1,130	79	4,791	no			
Virginia University of Lynchburg ^d	0	X	X				X		X	257	0	257	0	0	0	64	0	no			
Virginia Wesleyan College	0	X					X			1,412	0	1,412	0	0	0	119	0	no			
Washington & Lee University	141,368	X					X			2,072	68	1,712	83	360	393	258	548	no			
NOTE: The amounts above do not include all or part of the awards totalling \$2,399,512 that went to the Virginia Graduate Marine Science Consortium based in Charlottesville. The latter is an organization comprised of higher education institutions in Virginia that offer graduate programs in marine science. Since 1981, the consortium has included the College of William and Mary, Old Dominion University, University of Virginia, and Virginia Polytechnic Institute and State University.																					
^a Enrollment information from CollegeView.com. Enrollment information not available from IPEDS Enrollment at Title IV participating, degree-granting institutions: United States, Fall 2001. Faculty data from Peterson's.																					
^b The first class of students for Edward Via Virginia College of Osteopathic Medicine entered in 2003. See http://www.aacom.org/colleges/vcom.asp .																					
^c Faculty data from Marine Corps University website http://www.mcu.usmc.mil/mcu/Bios/Civilian_Faculty/index.htm .																					
^d Degree information and student enrollment data from Peterson's Black American Colleges and Universities http://www.petersons.com/blackcolleges/profiles/vallynchburg.asp?sponsor=13 . Faculty data from Virginia University of Lynchburg website http://www.vulonline.net/faculty_full.html .																					

WASHINGTON Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Antioch University-Seattle	0	X	X				X				816	0	211	0	605	0	48	0	no
Bastyr University	562,073	X	X				X				1,117	503	198	2,839	919	612	114	4,930	no
Central Washington University	1,719,831	X	X					X			8,826	195	8,317	207	509	3,379	507	3,392	no
City University	0	X	X				X				7,593	0	3,045	0	4,548	0	308	0	no
Eastern Washington University	1,340,182	X	X					X			8,932	150	7,958	168	974	1,376	352	3,807	no
Evergreen State College	188,868	X	X					X			4,227	45	4,001	47	226	836	214	883	no
Gonzaga University	754,000	X	X	X			X				4,874	155	3,359	224	1,515	498	263	2,867	no
Henry Cogswell College	0	X					X				258	0	258	0	0	0	11	0	no
Heritage College	178,241	X	X				X				1,224	146	725	246	499	357	27	6,602	no
Northwest College of the Assemblies of God	0	X	X				X				1,066	0	1,046	0	20	0	121	0	no
Pacific Lutheran University	0	X	X				X				3,426	0	3,145	0	281	0	259	0	no
St Martin's College	0	X	X				X				1,474	0	1,201	0	273	0	64	0	no
Seattle Pacific University	0	X	X	X			X				3,615	0	2,828	0	787	0	180	0	no
Seattle University	289,407	X	X	X			X				5,981	48	3,352	86	2,629	110	480	603	no
Trinity Lutheran College	0	X					X				114	0	114	0	0	0	23	0	no
University of Puget Sound	138,003	X	X				X				2,848	48	2,604	53	244	566	345	400	no
University of Washington																			
Seattle	518,105,691	X	X	X		X	X				37,412	13,849	26,860	19,289	10,552	49,100	4,698	110,282	no
School of Medicine	250,935,417																		
Bothell	0	X	X				X				1,679	0	1,494	0	185	0	75	0	no
Tacoma	0	X	X				X				1,998	0	1,651	0	347	0	82	0	no
Walla Walla College	0	X	X				X				1,823	0	1,577	0	246	0	141	0	no
Washington State University at Pullman ^a	50,038,009	X	X	X	X		X	X			21,073	2,375	17,476	2,863	3,597	13,911	1,838	27,224	no
Western Washington University	2,905,766	X	X				X				12,409	234	11,647	249	762	3,813	973	2,986	no
Whitman College	292,126	X					X				1,439	203	1,439	203	0	0	170	1,718	no
Whitworth College	46,213	X	X				X				2,107	22	1,878	25	229	202	107	432	no

^a Enrollment and faculty data for Washington State University at Pullman includes enrollment data for Washington State University at Spokane, Washington State University at Tri-Cities, and Washington State University at Vancouver.

WEST VIRGINIA Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PhD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
Alderson-Broadus College	0	X	X				X				802	0	741	0	61	0	88	0	no
Bethany College	0	X					X				774	0	774	0	0	0	63	0	no
Bluefield State College	0	X						X		X	2,768	0	2,768	0	0	0	213	0	no
Concord College	1,000,000	X					X				3,072	326	3,072	326	0	0	189	5,291	no
Davis & Elkins College	0	X					X				588	0	588	0	0	0	65	0	no
Fairmont State College	27,102	X					X				6,724	4	6,724	4	0	0	436	62	no
Glenville State College	200,000	X					X				2,143	93	2,143	93	0	0	179	1,117	no
Marshall University	7,717,634	X	X	X		X	X				16,036	481	11,862	651	4,174	1,849	1,013	7,619	no
<i>School of Medicine</i>	<i>2,581,852</i>																		
Mountain State University	1,500,000	X	X				X				2,525	594	2,422	619	103	14,563	216	6,944	no
Ohio Valley College	0	X					X				453	0	453	0	0	0	16	0	no
Salem International University	0	X	X				X				541	0	456	0	85	0	59	0	no
Shepherd College	0	X					X				4,391	0	4,391	0	0	0	140	0	no
University of Charleston	1,000,000	X	X				X				1,150	870	1,091	917	59	16,949	83	12,048	no
West Liberty State College	0	X					X				2,633	0	2,633	0	0	0	166	0	no
West Virginia State College	1,672,041	X					X	1890	X		4,835	346	4,835	346	0	0	282	5,929	no
West Virginia School of Osteopathic Medicine	0					DO	X				294	0	0	0	294	0	47	0	no
West Virginia University																			
Morgantown (main campus)	43,677,607	X	X	X		X	X	X			22,774	1,918	16,121	2,709	6,653	6,565	1,974	22,126	no
<i>School of Medicine</i>	<i>10,646,187</i>																		
Institute of Technology (Montgomery)	0	X	X				X				2,374	0	2,353	0	21	0	173	0	no
Parkersburg	0	X					X				3,340	0	3,340	0	0	0	172	0	no
West Virginia Wesleyan College	0	X	X				X				1,592	0	1,537	0	55	0	122	0	no
Wheeling Jesuit University	14,531,591	X	X				X				1,466	9,912	1,249	11,635	217	66,966	127	114,422	no

WISCONSIN Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HBCU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator		
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita		Number	Federal R&D Funds Per Capita
Alverno College	500,000	X	X				X				1,952	256	1,779	281	173	2,890	196	2,551	no		
Beloit College	41,853	X					X				1,273	33	1,273	33	0	0	138	303	no		
Cardinal Stritch College	800,000	X	X	X			X				5,855	137	3,123	256	2,732	293	915	874	no		
Carroll College	0	X	X				X				2,921	0	2,680	0	241	0	114	0	no		
Carthage College	0	X	X				X				2,345	0	2,259	0	86	0	187	0	no		
Concordia University-Wisconsin	0	X	X				X				4,810	0	3,921	0	889	0	163	0	no		
Edgewood College	0	X	X	X			X				2,110	0	1,632	0	478	0	198	0	no		
Lakeland College	0	X	X				X				3,588	0	3,344	0	244	0	277	0	no		
Lawrence University	0	X					X				1,323	0	1,323	0	0	0	166	0	no		
Maranatha Baptist Bible College	0	X	X				X				776	0	753	0	23	0	51	0	no		
Marian College of Fond du Lac	0	X	X				X				2,559	0	1,629	0	930	0	76	0	no		
Marquette University	4,194,544	X	X	X			X				10,832	387	7,499	559	3,333	1,258	1,002	4,186	no		
Medical College of Wisconsin	81,926,851	X	X			X	X				1,235	66,338	0	0	1,235	66,338	1,006	81,438	no		
<i>School of Medicine</i> ^a	<i>80,151,361</i>																				
Milwaukee School of Engineering	565,895	X	X				X				2,563	221	2,246	252	317	1,785	188	3,010	no		
Mount Mary College	40,929	X	X				X				1,216	34	1,080	38	136	301	162	253	no		
Mount Senario College	0	X					X				672	0	672	0	0	0	60	0	no		
Northland College	70,000	X					X				794	88	794	88	0	0	48	1,458	no		
Ripon College	0	X					X				903	0	903	0	0	0	84	0	no		
St Norbert College	400,000	X	X				X				2,131	188	2,059	194	72	5,556	109	3,670	no		
Silver Lake College	0	X	X				X				920	0	663	0	257	0	98	0	no		
University of Wisconsin System																					
Eau Claire	891,808	X	X				X				10,802	83	10,282	87	520	1,715	557	1,601	no		
Green Bay	311,413	X	X				X				5,851	53	5,484	57	367	849	221	1,409	no		
LaCrosse	520,391	X	X				X				9,650	54	8,492	61	1,158	449	464	1,122	no		
Madison	364,986,252	X	X	X	X	X	X	X	X		40,922	8,919	29,861	12,223	11,061	32,998	3,860	94,556	no		
<i>School of Medicine</i>	<i>112,443,954</i>																				
Milwaukee	10,338,743	X	X	X			X				24,216	427	19,952	518	4,264	2,425	1,217	8,495	no		
Oshkosh	403,407	X	X				X				11,033	37	9,393	43	1,640	246	593	680	no		
Parkside	520,359	X	X				X				4,964	105	4,830	108	134	3,883	286	1,819	no		
Platteville	380,000	X	X				X				5,600	68	5,362	71	238	1,597	302	1,258	no		
River Falls	0	X	X				X				5,880	0	5,440	0	440	0	327	0	no		
Stevens Point	214,598	X	X				X				8,832	24	8,409	26	423	507	458	469	no		
Stout	1,044,808	X	X				X				8,052	130	7,319	143	733	1,425	412	2,536	no		
Superior	0	X	X				X				2,842	0	2,434	0	408	0	174	0	no		
Whitewater	97,877	X	X				X				10,549	9	9,349	10	1,200	82	517	189	no		
Viterbo College	0	X	X				X				2,623	0	1,714	0	909	0	168	0	no		
Wisconsin Lutheran College	0	X					X				716	0	716	0	0	0	48	0	no		
Wisconsin School of Professional Psychology	0	X	X				X				48	0	0	0	48	0	32	0	no		

^a The Medical College of Wisconsin consists of the School of Medicine and the Graduate School of Biomedical Sciences, both of which are eligible to receive federal R&D funds. Only the federal R&D funds going to the School of Medicine are specified here. Note that these funds are included in the total provided for the Medical College of Wisconsin on the line above.

WYOMING Universities and Colleges	Federal R&D Funds Received in FY 2002 (Obligations)	Degrees Granted					Private	Public	Land Grant	HECU	All Students		Undergraduate Students		Graduate & First Professional Degree Students		Faculty		FFRDC Operator
		BA/BS	MA/MS	PHD	DVM	MD					Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	Number	Federal R&D Funds Per Capita	
University of Wyoming	18,144,227	X	X	X				X	X		12,366	1,467	8,907	2,037	3,459	5,246	901	20,138	no

REFERENCES

- Davey, Michael E., and Richard E. Rowberg, *Challenges in Collecting and Reporting Federal Research and Development Data*, Congressional Research Service Report to Congress, January 31, 2000.
- Eiseman, Elisa, Kei Koizumi, and Donna Fossum, *Federal Investment in R&D*, MR-1639.0-OSTP, RAND Corporation, Santa Monica, CA, July 2002.
- “Federal Procurement Report 2002,” available at www.fpdc.gov/fpdc/FPR2002a.pdf.
- Fossum, Donna, Lawrence Painter, Valerie Williams, Allison Yezril, Elaine Newton, and David Trinkle, *Discovery and Innovation: Federal Research and Development Activities in the Fifty States, District of Columbia, and Puerto Rico*, MR-1194-OSTP/NSF, RAND Corporation, Santa Monica, CA, 2000.
- Mowery, David, and Nathan Rosenberg, “The U.S. National Innovation System,” in Richard R. Nelson, ed., *National Innovation Systems*, Oxford University Press, 1993.
- National Science Board, *Federal Research Resources: A Process for Setting Priorities*, National Science Foundation, October 11, 2001.
- National Science Foundation, Division of Science Resources Statistics, “Federal Funds for Research and Development: Fiscal Years 2000, 2001, and 2002,” NSF 02-321, Arlington, VA, June 2002.
- Popper, Steven W., and Caroline S. Wagner, *New Foundations for Growth: The U.S. Innovation System Today and Tomorrow*, RAND Corporation, Santa Monica, CA, 2002.
- U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS), collected in Spring 2002 and released in December 2003.
- Walshok, Mary L., Edward Furtek, Carolyn W. B. Lee, and Patrick H. Windham, *Building Regional Innovation Capacity: The San Diego Experience*, Industry & Higher Education, Vol. 16, No. 1, February 2002, pp. 27–42.