

## Day 1 Breakout Session--

### 6. *Workforce Development and Enhancement*

- What are the principal types of infrastructure needed to foster workforce development and enhancement?
  - To educate and train human capital for the research enterprise?
    - Buy-in from the top.
    - Early on participation from all stakeholders
    - Keep goal of serving students in mind.
    - Communication system works and people can use it.
    - Buy-out of time (= \$) for sabbaticals, mentoring, faculty time.
    - Have people from biz and local research institutions do internships at local colleges

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### 6. *Workforce Development and Enhancement*

- What are the principal types of infrastructure needed to foster workforce development and enhancement?
- REU with industry – national internship program with industry
- Passion and commitment for success
- Proactive involvement of sponsor (NSF) to promote PFI availability and successes
- Need an environment of innovation
- \$ rewards for excellence

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### 6. *Workforce Development and Enhancement Challenges*

- Keeping students in the state
- Turf wars
- Reaching all stakeholders, esp. minority-owned businesses
- Paying for program coordinators, facility space, equipment, etc.
- Money from other federal sources (national laboratories) does not count towards matching \$ when it should.

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### 6. *Workforce Development and Enhancement*

- How, if at all, does NSF need to change or improve upon its role in workforce development and enhancement?
- When RFPs deal w/K-12, emphasize and support state and national standards
- Include a K-12 aspect to PFI grants
- Work with Ed. Dept., community-based organizations, etc., on K-12 STEM programs, NSF can help communicate that this is a crisis. Use NSF stature and voice.
- More specific, tailoring, targeted grants for education and training
- Pay for more of the industry participation in PFI, esp. small businesses
- Consider keeping PFI (Like REU and EPSCOR). Individual grants are seeds, but program sticks.

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### 6. *Workforce Development and Enhancement*

- How, if at all, does NSF need to change or improve upon its role in workforce development and enhancement?
- Leverage more with private foundations, while also developing a more formal, strategic approach to sustain funding.
- Consider international consultants for workforce development
- Consider establishing a Small Biz Development center-like program for engineering
- Multiagency collaboration to innovatively leverage existing programs to bridge problems
- Clearinghouse – searchable database of programs funded through NSF
- Consider a broader applicant pool for RFPs (foundations, school districts). Be innovative!