ISSUE

Cyberwarfare is considered a core element of the U.S. Air Force (USAF) mission. People with cybersecurity skill sets are in great demand, not only in the military but also in the private sector. As a result, USAF is concerned that recruiting and retaining talented cyber personnel might be increasingly difficult. Thus, USAF expressed an interest in better understanding the perspectives of members of its cyber workforce and the insights that could be gained from their views. USAF turned to RAND Project AIR FORCE for assistance in gathering these insights. Prior RAND work explored these issues among officers; this report focuses on enlisted and civilian members of the cyber workforce.

APPROACH

We conducted 30 focus groups and interviews to collect the viewpoints of cyber enlisted and civilian personnel in offensive and defensive cyber operations—specifically the cyber warfare operations (1B4) specialty, digital network analyst (1N4A) specialty, and civilians operating as part of the cyber mission force (CMF). We also reviewed USAF’s archival personnel data files to examine retention profiles for the civilian and enlisted cyber workforce.

CONCLUSIONS

- Participants had mixed views on whether recruiting was a concern. In 43 percent of focus groups, at least one participant said that there were recruiting challenges; however, in 63 percent of focus groups, at least one participant said that there were not recruiting challenges.
  - Questionnaire respondents responded neutrally on the question of satisfaction with the level of cyber talent being recruited.
- In contrast, participants in 77 percent of focus groups said that retention is a concern (see the figure).
  - Participants explained that they were less concerned with retention overall. Instead, they were concerned that the best-quality personnel were the ones leaving.
- Consistent with this finding, the personnel data that we reviewed suggest that cyber retention overall is not a problem. However, our analysis of Armed Forces Qualification Test scores lends support to participants’ concerns that the best people might be leaving at higher rates than other cyber personnel.
RECOMMENDATIONS

- **Track and monitor retention, especially of top performers.** Currently, there is no systematic way to identify or track top performers, but USAF should begin collecting such data to track retention.

- **Develop materials to help get recruiters and the public well versed in cyber career fields.** Develop materials that can be used to better explain the job to a lay audience and the overall criticality of the cyber mission to USAF. The materials should provide a realistic preview of the job, including the skill, ability, and interest requirements.

- **Truncate the onboarding process for civilians.** Revisit the merits of the 180-day processing period for applicants with prior USAF service with cyber backgrounds who wish to come back as civilian cyber specialists. Explore whether financial compensation could be given to viable applicants during the clearance process.

- **Create senior technical (nonmanagement) roles.** Some cyber personnel want the ability to “stay on keyboard” indefinitely to maintain their technical skills and do the work that they enjoy instead of being forced to assume supervisory roles via promotion. A warrant officer track would address this; other technical track solutions could also be considered.

- **Take steps to address bureaucracy and other major sources of dissatisfaction.** USAF needs to address these frustrating obstacles to counter the draw of the private sector and ensure that these obstacles do not continue as the enterprise normalizes.

- **Improve identification and tracking of civilians in the CMF.** The Air Force Personnel Center currently does not have a clear way of identifying civilians in the CMF. This is a necessary first step to monitor retention of these individuals.