NMT Cybersecurity Workforce Development

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GRADUATE DEAN AND PROFESSOR OF COMPUTER SCIENCE
Women in Computer Science

Goal: increase women in computer science

New components
  ◦ Application diversity in introductory courses including cyber security
  ◦ Cyber security learning community
  ◦ Mentoring
  ◦ Internships
  ◦ Research with faculty
  ◦ Summer courses for a head start and/or catch up

Donor Sponsored Program

Additional funding needed for research opportunities, attending Grace Hopper, scholarships, teaching and research assistantships
Cybersecurity Core Courses

Sample Courses in Cyber Security
- Information Protection and Security
- Cryptography and Applications
- Privacy in Mobile Computing
- Usable Security
- Smart and Security Sensor Network Applications
- Network Security
- Foundations of Information Security
- Secure Systems Administration
Scholarship for Service

Center of Academic Excellence in Information Assurance Education and Research
National Science Foundation Funding

**Student Advantages**
- Stipend
  - $22,500 undergraduate
  - $34,000 graduate
- Professional development
- Research
- Career conference
- Civil Service internship & employment

**Employer Advantages**
- Student prepared for civil service internship & employment
- Employee with two or more years of cyber security experience
- Employee with an extended cohort of cyber security colleagues
- US citizen or permanent resident employee
Sample Employers of NMT’s SFS Graduates

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<thead>
<tr>
<th>Air Force</th>
<th>Fort Huachuca</th>
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<tbody>
<tr>
<td>American Indian Health Center</td>
<td>Idaho National Laboratory</td>
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<td>Army Corp of Engineers</td>
<td>National Security Agency</td>
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<td>Army Intelligence - Fort Huachuca</td>
<td>Sandia National Laboratory</td>
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<td>Central Intelligence Agency</td>
<td>Lincoln Laboratory</td>
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<td>Defense Information Systems Agency</td>
<td>Los Alamos National Laboratory</td>
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<td>Federal Bureau of Investigation</td>
<td>Space and Naval Warfare Systems Agency</td>
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<tr>
<td>Federal Reserve</td>
<td>Railroad Retirement Board</td>
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A Few Cyber Security Participants

Kevin Schmittle
Maxwell Hill
Owen Parkins
Kyle Buchmiller

network security with a focus in access control, authentication, and privacy

cyber security with a focus on human computer interactions with primary goal of making cyber security more intuitive

rootkit detection on smartphones

modern programming-based attacks, as well as the mitigations that combat them
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