
NMT Cybersecurity Workforce Development

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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

Air Force

American Indian Health Center

Army Corp of Engineers

Army Intelligence - Fort Huachuca

Central Intelligence Agency

Department of Homeland Security

Defense Information Systems Agency

Federal Bureau of Investigation

Federal Reserve

Fort Huachuca

Idaho National Laboratory

National Security Agency

Sandia National Laboratory

Lincoln Laboratory

Idaho National Laboratory

Los Alamos National Laboratory

Space and Naval Warfare Systems Agency

Railroad Retirement Board

A Few Cyber Security Participants

Kevin Schmittle



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

Maxwell Hill



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

Owen Parkins



rootkit detection on smartphones

Kyle Buchmiller



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

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