



# Academic Outreach

## Strengthen the next generation of diverse cyber professionals

Cyber is an ever-changing landscape, and part of NSA's mission is to detect emerging technologies that will become the next generation of threats. As these threats advance, the resources to build the expertise within the current and future cyber workforce must advance as well.

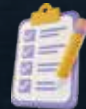


### Strategic Mission

To keep America secure, and unleash the next era of American innovation, we must drastically scale up the cyber workforce by investing in cybersecurity education from kindergarten through college. To do so, we prioritize the following:



Expand and Enhance the Cyber Workforce



Inform National Strategic Policy on Cyber Workforce and Education



Strengthen the Federal Cyber Workforce



Equip Every American with Foundational Cyber Skills



Transform Cyber Education



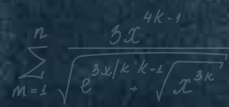
## Our Offerings

### K-12 Development

- Immersive Learning Activities
  - Caesar Shift Cipher
  - Cryptographic Hashing
  - Basic Coding/Sequencing
  - Racing Robotics
  - CyberSafety 101
  - Cyber Threat Defender
- Cyber clubs
- Cyber curriculum enhancements

### Collegiate Engagement

- Technical talks
- Informational briefings
- Collaborative discussions with NSA experts
- Visiting professors and scholars
- Tours for student groups and clubs





# Lines of Action

## K-20 Education

Foster interest in STEM/Cyber careers at all educational levels. This will include utilizing content from National Cryptologic Institutions, increasing outreach to Colleges/Universities, and hosting student presentations that illustrate the diversity of cybersecurity.



## Recruitment

Increase diversity for the future of NSA Cybersecurity. We will also accelerate and increase recruitment for Historically Black Colleges and Universities (HBCUs), Hispanic Serving Institutions (HSIs) and other minority-focused educational institutions.

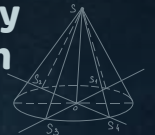


## Partnerships

Broaden partnerships with relevant colleges/universities, with military academies/Centers of Academic Excellence, and Federally Funded Research and Development Centers. This will include establishing opportunities for NSA Cybersecurity experts to participate in campus lectures as well as for university personnel to serve as "Visiting Scholars" for NSA Cybersecurity.



NSA inspires the cyber experts of tomorrow through K-20 engagements in school and at the Cybersecurity Collaboration Center.



**We foster diverse, STEM and cybersecurity professionals of the future.**

In 2023, NSA contributed to the White House's first-ever **National Cyber Workforce and Education Strategy** in consultation with industry, academia, non-profit organizations, and government partners. NSA's commitments include a pilot initiative to help develop "cyber clinics" across the nation which will support communities and small governments that would otherwise not have access to cyber risk assessment and planning assistance.

**Artificial Intelligence/Machine Learning** **5G** **Zero Trust**  
Blockchain Technology **Security Engineering** Software Assurance  
Vulnerability Analysis **Data Science** **STEM/Cybersecurity Education**  
**Ransomware** Malware Analysis & Mitigations **Cloud Computing**  
**Quantum Computing & Post Quantum** Supply Chain

## Connect with us

To learn more, email us at  
[CyberAcademicOutreach@uwe.nsa.gov](mailto:CyberAcademicOutreach@uwe.nsa.gov)  
or go to [nsa.gov/cc](https://nsa.gov/cc)

