









EDUCATION LEVELS

ENABLERS

Competencies and Functional Role Descriptions: Defines What Is Needed

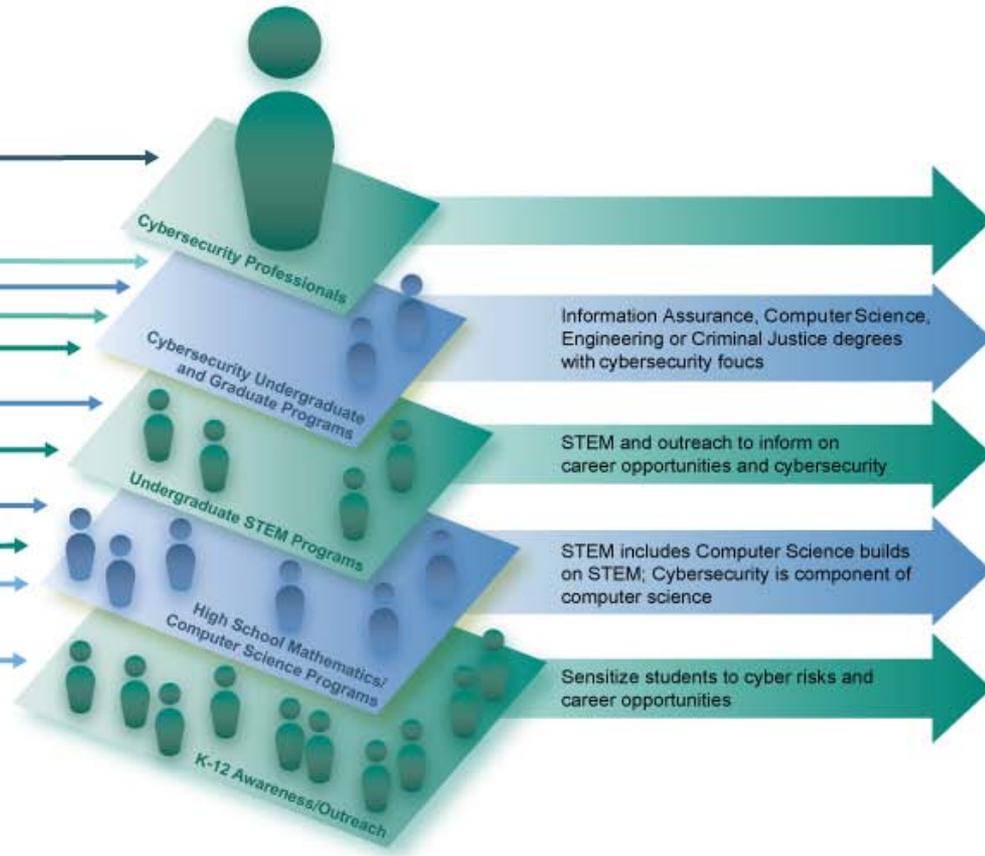
NSA/DHS CAE and NSF/DHS SFS Programs

DHS Sponsored Cybersecurity Courseware Providers

STEM Programs

NICE Awareness Campaign

NSF Computing Education for 21st Century Program and, MS-ISAC Relationships, and Existing State, Local Tribal Specific Program



OUTCOMES

Cybersecurity Professionals:

- Forensics
- Counter-Intelligence
- Secure Software Development
- Other Specialization

Cybersecurity Capable Workforce with deep cybersecurity background and tools

Cybersecurity Capable Workforce participants with understanding of cybersecurity

Cybersecurity Aware Citizens and increased pursuit of cybersecurity career fields

Cybersecurity Aware Citizens with understanding of cybersecurity

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Broaden the pool of skilled workers for a cyber-secure nation

1. Enhance quality and magnitude of the **existing K-12 mathematics and science** education improvement efforts, while emphasizing the important role computing plays in STEM education
2. Increase the quality and quantity of formal **computer science** programs in **high schools**
3. Increase the quantity and quality of **undergraduate cybersecurity** curricula for students in computer science and more broadly, IT and security-related degree programs
4. Incentivize, support and **recognize excellence in graduate-level** cybersecurity research and development

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