NICE

NATIONAL INITIATIVE FOR **CYBERSECURITY** EDUCATION

About NICE

- ## 2003 National Strategy to Secure Cyberspace
    - A National Cyberspace Security and Awareness Program

- ## 2009 White House Cyberspace Policy Review
    - Mid-Term Action: Develop a Strategy to Expand and Train the Workforce, including Attracting and Retaining Cybersecurity Expertise in the Federal Government
    - Mid-Term Action: Expand Support for Education Programs

- ## 2010 Comprehensive National Cybersecurity Initiative
    - Initiative #8: Expand Cybersecurity Education

- ## 2010 NICE is Launched

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NICE Recent History

- 2012 Strategic Plan Goals
  - Component 1: Awareness
  - Component 2: Education
  - Component 3: Workforce
- 2014 Received First Appropriation of Funding
- 2014 Cybersecurity Enhancement Act
  - Title III Education and Workforce Development
    - Sec 301 Cybersecurity Competitions and Challenges (DHS, NSF, NIST)
    - Sec 301 Federal Scholarship for Service Program (NSF)
  - Title IV Cybersecurity Awareness and Preparedness
    - Sec 401 Nat'l Cybersecurity Awareness and Education Program (NIST)

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NICE Strategic Plan – December 2015

". . . build on programs and plans in effect . . . to develop and implement a strategic plan to guide Federal programs and activities in support of the national cybersecurity awareness and education program . . ."
Cybersecurity Enhancement Act of 2014

Re-Envisioning NICE

- NICE is a ***national initiative*** to address cybersecurity education and workforce development
- NICE is a public-private ***partnership*** between government, academia, and the private sector
- NICE will build upon existing ***successful programs***
- NICE will facilitate ***change and innovation***
- NICE will bring ***leadership*** and vision

Accelerate Learning and Skills Development

- Explore programs and techniques that can more rapidly increase the supply

- Reduce the time and cost for obtaining necessary knowledge, skills, and abilities

- Target displaced workers or underemployed individuals who are available and motivated

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Establish a Diverse Learning Community

- Seek creative and effective efforts to increase the number of underrepresented populations

- Drive cybersecurity career awareness, exploration, and preparedness into schools and younger populations

- Leverage formal education programs, technical training and certifications, and co-curricular experiences

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Workforce Development and Career Planning

- Analyze data sources that project present and future workforce demand and supply of qualified workers

- Explore tools and techniques that effectively measure and validate knowledge, skills, and abilities

- Identify effective practices and solutions that enhance recruitment, hiring, promotion, and retention

Key Programs and Activities

- National Cybersecurity Workforce Framework
- NICE Annual Conference
- NICE365 Events
- NICE Working Group
- Competitions and Challenges
- More to come . . .

Outreach and Engagement: Government

- The White House
  - Office of Science and Technology Policy
  - National Security Council
  - National Economic Council
- Key Federal Partners
  - DoC, DoL, DHS, NSF, NSA, OPM, DoD, ED
- Over 20 Federal Departments and Agencies
- Federal CIO Council Workforce Committee
- State, Local, and Tribal Governments

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Outreach and Engagement: Academia

- K-12 Schools, State ED, and Associations
- Academic Institutions and Higher Education Associations
- NSF Advanced Technological Education (ATE) Centers
- NSF CyberCorps: Scholarship for Service Program
- NSA/DHS Centers of Academic Excellence (CAE's)
  - 2-Year Education
  - IA Education
  - IA Research
  - Cyber Operations

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Outreach and Engagement: Industry

- Business-Higher Education Forum
  - National Higher Education and Workforce Initiative
- Industry Roles
  - As *Employers* of cybersecurity workforce
  - The *IT Sector* as employers and service providers
  - The *Training and Certification* industry
- Small and Medium-Sized Businesses
- NICE365 Industry Advisory Board
- Cross Sector Cyber Security Working Group
  - NICE Working Group

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My Leadership Vision

- Increase visibility

- Deepen engagement

- Strengthen communication

- Improve performance

- Enhance impact

- Empower action

- Expand partnerships

- Foster collaboration

- Instill enthusiasm

For More Information

Rodney Petersen

National Initiative for Cybersecurity Education

Rodney@nist.gov

301-975-8897