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
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)
“... 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
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
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
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
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
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