

#### **About NICE**

vision to increase the number of skilled cybersecurity facilitate change and innovation, and bring leadership and industry partners to build on existing successful programs. this mission by coordinating with government, academic, and education, training, and workforce development. NICE fulfills promote a robust network and an ecosystem of cybersecurity workforce development. The mission of NICE is to energize and sector focused on cybersecurity education, training, and is a partnership between government, academia, and the private by the National Institute of Standards and Technology (NIST), The National Initiative for Cybersecurity Education (NICE), led



#### **NICE Goals**



#### ACCELERATE LEARNING AND SKILLS DEVELOPMENT

cybersecurity workers private sectors to address the shortage of skilled Inspire a sense of urgency in both the public and



#### NURTURE A DIVERSE LEARNING COMMUNITY

outcomes, and diversify the cybersecurity workforce Strengthen education and training across the ecosystem to emphasize learning, measure



### GUIDE CAREER DEVELOPMENT AND WORKFORCE PLANNING

and retention of cybersecurity talent and enhance recruitment, hiring, development, Support employers to address market demands

# Affiliated Programs

The Department of Homeland Security's Cybersecurity Education and Awareness portal promotes cybersecurity knowledge and innovation by increasing professional expertise and public awareness. Employers, educators, professionals, and students can use the portal



more. Learn more at www.niccs.us-cert.gov. to access a course catalog, workforce development toolkit, sample curriculum, and

work and a dataset that can be analyzed to identify future workforce needs and gaps. code their workforce to identify the positions that perform significant cybersecurity leads the Special Cyber Workforce Project that oversees the process by which agencies Human Resources Strategy that addresses Recruitment and Hiring, Learning and The Office of Personnel Management is leading the development of a Cybersecurity Talent Development, and Retention for the Federal cybersecurity workforce. OPM also

www.atecenters.org/security-technologies and www.nsf.gov/ate education, particularly in community colleges and secondary schools. Learn more providing grants to develop and evaluate innovative activities that improve technician technology and cybersecurity—that drive the U.S. economy. ATE accomplishes this by supports the education of technicians for the high-tech fields—including information The National Science Foundation's Advanced Technological Education (ATE) program

www.nsa.gov/academia/ncae-cd. Security Agency and the Department of Homeland Security. Learn more pipeline of professionals with cybersecurity expertise in various disciplines. The National infrastructure by promoting higher education and research and producing a growing security (CAE-C) programs aim to reduce vulnerability in our national information The National Security Agency's National Centers of Academic Excellence in Cyber-Centers of Academic Excellence in Cyber Defense (CAE-CD) are co-led by the National

The National Science Foundation's **CyberCorps®: Scholarship for Service** (SFS) program, co-sponsored by the Department of Homeland Security, is a program that provides scholarships that may fully fund the typical costs incurred by



equivalent to the length of their scholarship. Learn more at www.sfs.opm.gov SFS awards must agree to serve in a government agency upon graduation for a period institution, including tuition, stipends, and related fees. In return, students receiving full-time students while attending a participating

www.gen-cyber.com for delivering cybersecurity content in K-12 computer science curricula. Learn more at careers in the cybersecurity workforce of the Nation, and improve teaching methods teachers at the K-12 level. The goals of the program are to help all students understand Science Foundation, provides summer cybersecurity camp experiences for students and The National Security Agency's GenCyber program, co-sponsored by the National and safe online behavior, increase diversity and interest in cybersecurity

Learn more at www.niccs.us-cert.gov/training/tc/framework. cybersecurity tasks and the knowledge, skills, and abilities required to do those tasks state government, and colleges and universities to develop a comprehensive list of Security partnered with organizations across the US from private industry, federal the size and capability of the US cybersecurity workforce. The Department of National Cybersecurity Workforce Framework is the foundation for increasing

#### **Funded Projects**

The following are a few key projects funded by the federal government.

used as a platform for instruction as well as to to perform the tasks outlined in the National low barrier of use in which one would be able ments and supporting infrastructure with a to create a flexible set of challenge environ-State University, San Bernardino, is designed Cybersecurity Workforce Framework. It can be The NICE Challenge Project, led by California



cybersecurity workforce. Learn more at www.nice-challenge.com

evaluate those who endeavor to be part of the

with Burning Glass Technologies, will provide a data visualization of the need for ment in the field. Learn more at www.nist.gov/nice/map will also show career pathways in cybersecurity that map opportunities for advanceprovide information on the supply of workers with relevant credentials. This project education and training providers, and guidance counselors. The Map will also and supply of cybersecurity workers to guide employers, job seekers, policy makers, The Cybersecurity Jobs Heat Map, being developed by CompTIA in partnership

programs to enable K-12 teachers to motivate creativity and innovation in students academic outreach and workforce development arm of the Cyber Innovation www.nicerc.org through problem-solving, critical thinking, and communication. Learn more at competitions to engage students in STEM disciplines. NICERC has developed Center, provides hands-on professional development, curricula, programs, and The National Integrated Cyber Education Research Center (NICERC), as the

one public school district, and two national laboratories. CECOR is creating a shortage, in particular for the National Nuclear Security Administration and its professionals in significant numbers to address the pressing cybersecurity workforce sustainable workforce development program to produce well-qualified cybersecurity Consortium partners include thirteen historically black colleges and universities, is a collaborative project to develop a K-20 pipeline for the cybersecurity workforce The Consortium Enabling Cybersecurity Opportunities and Research (CECOR) laboratories.

## **Connect with NICE**

#### Join the NICE Working Group

Subgroup focus areas include: information-sharing between the government, academia, and the private sector. Working Group meets regularly to provide an opportunity for consultation and advance cybersecurity education, training, and workforce development. The participants to develop concepts, design strategies, and pursue actions that The NICE Working Group provides a mechanism for public and private sector

K-12

Training and Certifications

Collegiate

Workforce Framework

Competitions

Career Development and Workforce Planning

# Participate in the Annual NICE Conference and Expo

government, industry, and non-profits who are addressing the cybersecurity strategic directions and priorities, and a forum to showcase best practices. Learn face-to-face convening of public-private partners, an opportunity to signal NICE education, training, and workforce needs of the nation. This event includes more at www.fbcinc.com/nice The NICE Annual Conference and Expo features thought leaders from education,

# Participate in the National K-12 Cybersecurity Education Conference

opportunities of cybersecurity education in elementary and secondary schools preparedness of K-12 students. Learn more at www.nist.gov/nice/k-12conference tions, foundations, government, and industry to address the challenges and curriculum specialists, professionals, researchers, students, non-profit organizadesigned to promote cybersecurity career awareness and support academic The event includes workshops, keynote speakers, panel discussions, and exhibits The National K-12 Cybersecurity Education Conference brings together educators,

#### Visit us Online

Learn more at nist.gov/nice and sign up for email updates from the NICE Program Office

