



NATIONAL CYBER WORKFORCE AND EDUCATION STRATEGY

CYBER PATHWAYS FOR JOB SEEKERS

The National Cyber Workforce and Education Strategy (NCWES) amplifies the importance of cyber skills in the workforce, however finding resources to get started, advance, or transition in cyber career pathways can often be difficult. Cyber careers include more than cybersecurity. For example, many jobs in the finance, retail, healthcare, and entertainment industries require an understanding of technology, but may not require a four-year degree. Employers, community and technical colleges, universities, and other stakeholders in cyber education and workforce development ecosystems are increasingly working together to provide opportunities for Americans to develop the cyber skills needed to securely design, build, and operate the information and operational technologies that are used in our daily lives. The Federally-funded resources listed can serve as a starting point for pursuing your cyber career aspirations.

EXPLORE OPPORTUNITIES IN CYBER

Check out some ways to explore opportunities in cyber:

- If you are just beginning your cyber journey, visit the [NICE Resources](#) page on NIST.gov to learn more about cyber career pathways and find links to free and low-cost online educational content.
- Contact your local public library to see if they offer computing courses.
- Contact an American Job Center to see if cyber training resources are available in your area.
- Some learning opportunities allow you to earn a wage while you learn valuable skills, such as registered apprenticeships.
- Scholarships, such as the [CyberCorps: Scholarship For Service \(SFS\) Program](#) can pay for your education in exchange for government service.
- Contact one of the over 400 2-year and 4-year colleges and universities that are designated as National Centers of Academic Excellence (NCAE-C) to learn about the cyber programs or continuing education cyber courses that may be available.
- The public workforce system, including Federally-funded American Job Centers, may provide career services and resources for finding jobs in your state and local community.
- Veterans may access cyber resources through the Veterans Employment Toolkit, the Veterans Employment and Training Service, the CyberSkills2Work Program, and the Veteran and Military Spouse Talent Engagement Program. These resources may include assistance with writing your résumé, career counseling, and assistance with hiring processes.



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FEDERAL CYBER RESOURCES FOR JOB SEEKERS

The Federal government offers a variety of programs to benefit students, prospective employees, transitioning veterans, and incumbent workers seeking good paying, middle-class jobs in the cyber workforce. Currently, there are over 500,000 open cyber jobs. To assist job seekers pursuing these job opportunities, we have assembled Federal resources, which include college and university-based scholarship programs, apprenticeship and internship opportunities, cyber challenge competitions, job search tools, career expos, and conferences, among many other programs.

HELPFUL LINKS

Education & Training

Department of Homeland Security – Cybersecurity and Infrastructure Security Agency

[Non-Traditional Training Grant \(NTTP\)](#)

[National Initiative for Cybersecurity Careers and Studies \(NICCS\)](#)

[Cybersecurity Apprenticeship Program for Veterans](#)

Department of Defense

[Center for Development of Security Excellence \(CDSE\)](#)

[Department of the Navy \(DoN\) Historically Black Colleges and Universities/Minority Institutions \(HBCU/MI\) Program](#)

[STEM Careers Cyber](#)

[Army Educational Outreach Program \(AEOP\) - College Qualified Leaders \(CQL\)*](#)

[AEOP – Research and Engineering Apprenticeship Program \(REAP\)*](#)

[Air Force Research Laboratory \(AFRL\)/Air Force Office of Scientific Research \(AFOSR\) Center of Excellence \(COE\) Program](#)

[Air Force Research Laboratory \(AFRL\) Scholars Program*](#)

[Air Force Visiting Scientist Program](#)

[Consortium Research Fellows Program \(CRFP\)*](#)

[DOD STEM Community College Consortium](#)

Department of Commerce – National Institute of Standards and Technology

[Regional Alliances and Multistakeholder Partnerships to Stimulate \(RAMPS\) Cybersecurity Education and Workforce Development](#)

[Cyberseek.org*](#)

[NICE Conference and Expo*](#)

[National Cybersecurity Career Ambassadors Program](#)

[Cybersecurity Career Week](#)

[NICE Framework and Resource Center](#)

[US Cyber Games*](#)



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[Free or Low Cost Cybersecurity Resources](#)

[Cybersecurity Apprenticeship Finder](#)

Department of Commerce – National Telecommunications & Information Administration

[DOC/NTIA: Kinetic Cyber Range](#)

Department of Education

[Minority Science and Engineering Improvement Program](#)

[Raise the Bar: Lead the World](#)

[Career Z Challenge: Expanding Work-Based Learning Opportunities for Gen Z](#)

[Native American Career and Technical Education Program](#)

[Native Hawaiian Career and Technical Education Program](#)

Department of Energy

[Cyber Fire Foundry*](#)

[CyberForce Competition](#)

[US Department of Energy \(DoE\) Cyber Defense Competition](#)

[DOE STEM](#)

[BSSW Fellowship Program](#)

[Center for Global Security Research Student Intern Program](#)

[Cybersecurity Summer Institute](#)

Department of Homeland Security

[The Secretary's Honors Program \(SHP\) Cyber Student Volunteer Initiative \(CSV\)](#)

[Tribal Cybersecurity Grant Program](#)

Department of Labor

[Cybersecurity Apprenticeships](#)

[Apprenticeship Sprint](#)

[Youth Apprenticeships](#)

[National Apprenticeship Week](#)

[Apprenticeship Standards Builder](#)

[Apprenticeships.Gov](#)

Department of Labor: Employment and Training Administration

[DOL/ETA: Cybersecurity Competency Model*](#)

Department of State

[Global Engagements to Counter the Misuse of Advanced and Emerging Technologies](#)

[Global Biosecurity Engagement Activities](#)



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Federal Bureau of Investigation

[Cyber Investigator Certification Program \(CICP\)*](#)

[CISO Academy](#) *(Contact your local FBI Field Office for more information about how to participate in an upcoming CISO Academy session)*

National Security Agency

[National Centers of Academic Excellence in Cybersecurity \(NCAE-C\) Program](#)

[National Security Agency \(NSA\) Student Programs](#)

[National Security Agency's GENCYBER Program](#)

[Center of Academic Excellence \(CAE\)-Cyber Operations Summer Intern Program](#)

[Cooperative Education Program \(NSA\) Hawaii](#)

[Cooperative Education Program \(NSA\) STEM](#)

[Cryptanalysis and Signals Analysis Summer Program \(CASA SP\)](#)

[Cyber Scholarship Program \(CYSP\)](#)

[Cyber Summer Program \(CSP\)](#)

[WIN Cyber](#)

[Cyber Kids Day](#)

[NSA Codebreaker Challenge](#)

[NSA-funded CyberSkills2Work Program*](#)

[NSA Cybersecurity Exercise \(NCX\)](#)

[NSA Careers Portal](#)

United States Agency for International Development

[Innovative Workforce Activity Grant Program](#)

Veterans Affairs

[VA-Office of Information and Technology \(OIT\) Career Development Portal](#)

[Veteran Employment Through Technology Education Courses \(VET TEC\)](#)

[Veteran Readiness and Employment \(VRE\)](#)

Scholarships

Department of Education

[ED: Graduate Assistance in Areas of National Need](#)

Department of Defense

[Cybersecurity Scholarship Program \(CySP\) \(CIO\)](#)

[DoD SMART Scholarship-for-Service Program](#)

[DoD Cyber Scholarship Program](#)

National Science Foundation

[Cybercorps: Scholarship for Services \(SFS\)](#)

[Cybercorps[®] Scholarship for Service \(SFS\)](#)



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Public Service

Department of Homeland Security

[Cybersecurity Talent Management System \(CTMS\)](#)

[Strategic Talent, Recruitment, Inclusion, Diversity and Engagement \(STRIDE\)](#)

Department of Defense, Department of Homeland Security, Veteran Affairs & Department of Homeland Security – Cybersecurity and Infrastructure Security Agency

[Interagency Federal Cyber Career Pathways](#)

Department of Justice

[Cyber Fellowship Program](#)

Federal Bureau of Investigation

[Accelerated Cyber Training Program \(ACTP\)](#)

[Cyber Executive Training Program \(CETP\)](#)

[Computer Scientist Field Operations Training \(CSFOT\) Program](#)

[Data Science Curriculum: Onboarding Series \(DSCOS\)](#)

[Data Analytics Support Hub \(DASH\)](#)

**An asterisk indicates a government affiliated program that may receive funding from the federal government.*

For more information about these Federal Cyber Resources, please reach out to the Office of the National Cyber Director's Cyber Workforce Directorate at: workforce@ncd.eop.gov