



# Cybersecurity Education Resources



**America needs well-trained professionals working in cybersecurity roles.**

These professionals are critical in both private industry and the government for the security of individuals and the nation. The Department of Homeland Security (DHS) is committed to strengthening the nation's cybersecurity workforce through standardizing roles and helping to ensure we have well-trained cybersecurity workers today as well as a strong pipeline of future cybersecurity leaders of tomorrow.

## National Integrated Cyber Education Research Center



### Curricula Access

K-12 educators access curricula through a learning management system that provides easy access to course materials (student workbooks, teacher and master notes, lesson plans, assessments, and other supplemental materials).



### Professional Development

The NICERC team offers one or multi-day workshops for K-12 teachers around the country on integrating cyber, computer science, and STEM into their classrooms.



### Engagement with State Departments of Education

NICERC works directly with states to ensure alignment to state-based frameworks and standards.

OVER  
**13,500**  
TEACHERS  
ACCESSING  
CURRICULA

OVER  
**2.1** MILLION  
STUDENTS  
REACHED



[www.NICERC.org](http://www.NICERC.org)

**The National Integrated Cyber Education Research Center (NICERC)**, the academic division of the Cyber Innovation Center, is focused on growing and educating the next generation cyber-literate workforce through K-12 education. The United States Department of Homeland Security Cybersecurity Education Training Assistance Program (CETAP) supports NICERC through a grant to develop and distribute cyber, STEM, and computer science Curricula to educators across the country.

[...] students not only understand the content, but are able to utilize it in projects that reflect **real world scenarios**.

- Julie Malone, High School Teacher from Louisiana

It opens their eyes to ideas **outside the box for career choices**.

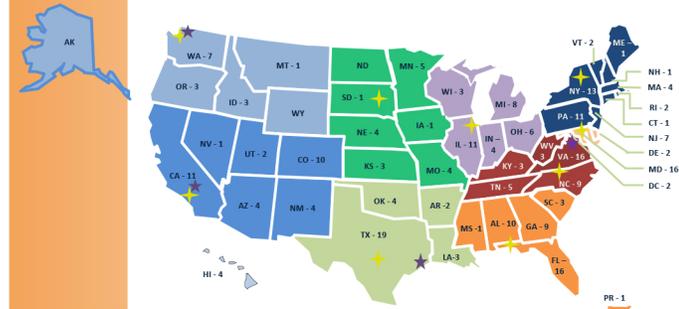
- Dave Handt, Math Teacher from North Dakota

The foundational principles that this curriculum helped build for my students has **ignited an interest in programming and coding** in my students who have never been exposed to it before.

- Joy Johnston, Programming and Coding Teacher from Virginia

Request access to curricula:  
[www.NICERC.org/curriculaaccess](http://www.NICERC.org/curriculaaccess)

# National Centers of Academic Excellence in Cyber Defense



- North Western Region
- South Western Region
- North Central Region
- Mid-Western Region
- South Central Region
- National Capital Region
- East Central Region
- North Eastern Region
- Southeast Region

The National Centers of Academic Excellence in Cyber Defense (CAE-CD) program, co-sponsored by the National Security Agency (NSA) and the Department of Homeland Security (DHS), was established to meet the growing need for knowledgeable and skilled cybersecurity professionals within the federal government - and ultimately, within state and local governments and industry.

With the CAE designation, colleges and universities are formally recognized by the U.S. government for their robust cybersecurity-related programs.

Visit: [www.iad.gov/NIETP](http://www.iad.gov/NIETP)

## Program Highlights

- Map to specified Knowledge Units, which align with NICE Cybersecurity Workforce Framework, a cybersecurity language employed nationwide by educators, industry, and government
- Ensure student confidence in the institution's degree program
- Providing academic insight into cyber-related programs at DHS, NSA, and other federal agencies
- Serve as a potential source and facilitator for government - academic researcher exchanges
- Facilitate development of faculty and research leaders at your institution
- Join the CAE Community to grow the cyber field
- Provide opportunities for student scholarships and grants
- Work with seasoned universities to build and shape your degree program

## CyberCorps®: Scholarship for Service Program

**Impact**  
as of Spring 2018

- Over 69** active institutions
- Over 3300** SFS Scholarship recipients
- Over 2500** SFS Scholarship graduates
- Over 700** currently enrolled SFS graduates
- Placement in **over 140** government entities

**Contact:** [SFS@NSF.gov](mailto:SFS@NSF.gov)

The CyberCorps®: Scholarship for Service (SFS) Program seeks to increase the number of qualified employees working for Federal, State, local, tribal or territorial governments in cybersecurity, and to increase the capacity of the United States education enterprise to produce professionals in cybersecurity. This program is managed in partnership by the National Science Foundation, Department of Homeland Security, and Office of Personnel Management.

The SFS Scholarship Track provides funds to colleges and universities for student scholarships in support of education in areas relevant to cybersecurity.

To find participating institutions visit: <https://www.sfs.opm.gov/contactspi.aspx>

### Job Fairs

The SFS scholarship program gives students exclusive access to hiring fairs for internship and permanent hire opportunities. DHS co-sponsors an annual virtual SFS Job Fair (October), and in-person SFS Job Fair in the Washington, D.C. area (January).

### Scholarship Component

- The SFS Program provides up to 3 years of scholarship for undergraduate and graduate (Master's or Doctoral) education
- The scholarship includes tuition, stipends (\$25K for undergrad and \$34K for graduate students, per year), insurance and other allowances (up to \$9K per year)
- Students participate in summer internship; doctoral students may be allowed to replace summer internship with research
- Upon graduation, Scholarship recipients must serve in the government in a cybersecurity-related position for a period equivalent to the length of the scholarship.

For more information visit:  
<https://niccs.us-cert.gov/formal-education>

