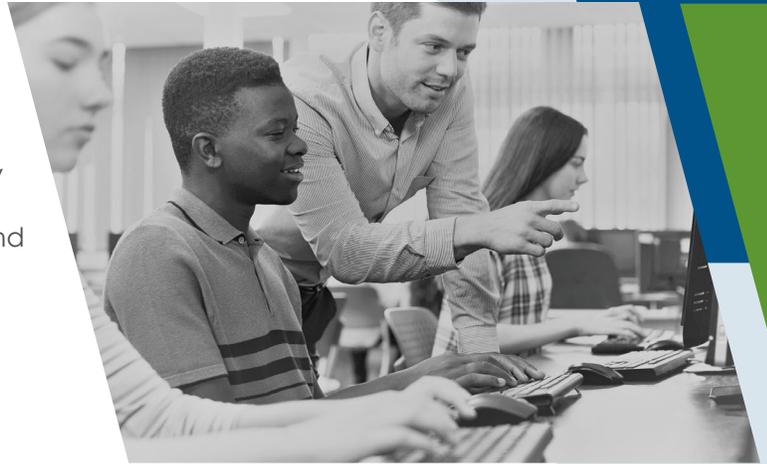


# Cybersecurity Education & Awareness



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.



## CYBER.ORG

CYBER.ORG, formerly The National Integrated Cyber Education Research Center (NICERC), is a cybersecurity workforce development organization that targets K-12 students with cyber career awareness, curricular resources and teacher professional development. The United States Department of Homeland Security supports CYBER.ORG through a grant from the Cybersecurity and Infrastructure Security Agency (CISA) to develop and distribute cyber, STEM, and computer science curricula to educators across the country.



### Provide Cyber Education Resources

The most effective way to support teachers is through curricula, training, and resources.



### Build Education Pipeline

By supporting K-12, we can build a steady stream of students prepared to enter cybersecurity programs and jobs.



### Solve Workforce Shortage

Currently, the demand for cybersecurity talent is outpacing the supply. By 2022, 1.8 million cyber jobs are projected to be unfilled.

### What Teachers Are Saying About CYBER.ORG content

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

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

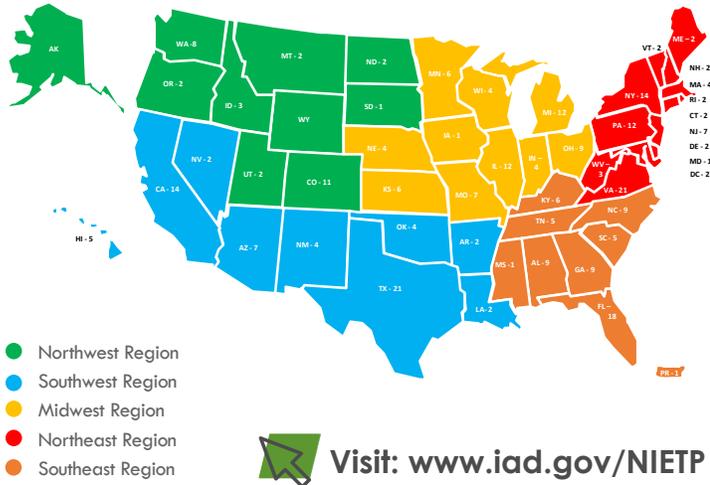
“ The foundational principles that this curriculum helped build for my students has **ignited an interest in programming and coding** in my students who have never been exposed to it before. ”

### IMPACT as of October 2020

- **21,000+** teachers enrolled in CYBER.ORG content
- **3 million** students impacted by CYBER.ORG content

**CYBER.ORG**  
THE ACADEMIC INITIATIVE OF THE CYBER INNOVATION CENTER

# National Centers of Academic Excellence in Cyber Defense



The National Centers of Academic Excellence in Cybersecurity (CAE-C) program, jointly sponsored by the National Security Agency (NSA), the Department of Homeland Security (DHS) and the Federal Bureau of Investigation (FBI) 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, specific academic program paths at colleges and universities are formally recognized by the U.S. government for their academic rigor and robust cybersecurity related programs.

## Program Highlights

- Receive U.S. government recognition for your institution's cyber defense education, cyber operations, and cyber research programs
- Align to specified academic standards, known as Knowledge Units, mapped to the NICE Workforce Framework
- Ensure student confidence
- Assist 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 and contribute to the growth of the cyber field
- Secure opportunities for student scholarships and grants

## NSF CyberCorps® Scholarship for Service Program

The NSF 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.

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

### Scholarship Components

- Up to 3 years of support for undergraduate and graduate (MS or PhD) education
- Academic-year stipends of \$25,000 per year for undergraduate students and \$34,000 per year for graduate students
- Tuition and education related fees (does not include items such as meal plans, housing, or parking)
- Professional allowance of \$6,000 for SFS Job Fair and other travel, professional certification, etc.
- Participation in virtual and in-person job fairs (in-person in Washington, D.C. area)
- Post-graduation government service requirement for a period equivalent to the length of scholarship

**75** active institutions

**4,000+** scholarships awarded since 2001

**700+** scholars currently enrolled

Placement in **140** government entities

Program generates **200+** graduates per year since 2014

Contact: [SFS@opm.gov](mailto:SFS@opm.gov)

Visit: [https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=504991](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504991)

