

# National Centers of Academic Excellence in Cybersecurity (NCAE-C)

OBJECTIVES AND STRATEGY

This presentation was given at the 2023  
National Cybersecurity Education Colloquium

# National Centers of Academic Excellence in Cybersecurity (NCAE-C)

Create and manage a collaborative cybersecurity educational program with community colleges, colleges and universities

- Criterion for cybersecurity education academics
- Competency Development
- Leaders in community outreach
- Multidisciplined cybersecurity practice
- Pro-active solutions to education challenges



# Vision

This presentation was given at the National Cybersecurity Education Colloquium 2023

Cohesive education-based programs to develop **cybersecurity workforce** ready to meet the needs of government & industry

Develop a reputation for **competent graduates and institutions** committed to national security and community involvement

Provide a **cradle-to-grave pathway** for cyber careers

Leverage **NCAE-C expertise and resources** to solve national cybersecurity challenges



Cybersecurity and Infrastructure Security Agency (CISA)



Federal Bureau of Investigation (FBI)

Office of the National Cyber Director (ONCD)

Department of Defense (OSD)

National Science Foundation (NSF)

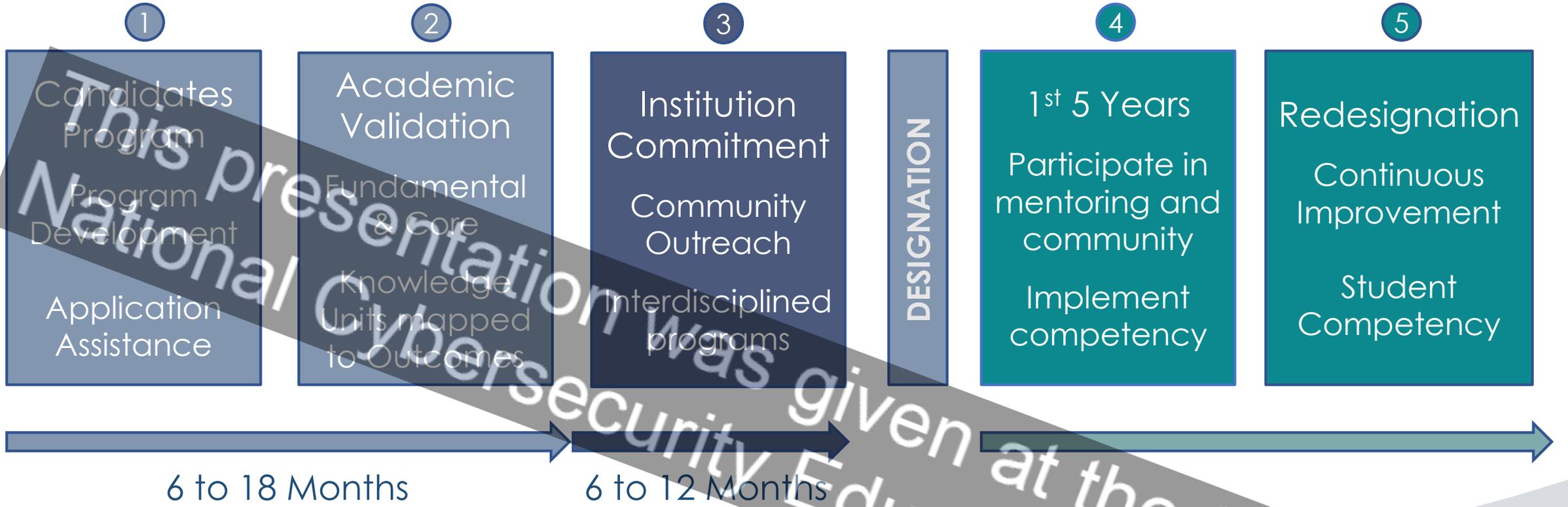
National Cybersecurity Training & Education Center (NCyTE)

National Initiative for Cybersecurity Education (NICE)

Department of Education (DoEd)

# Federal Partnerships

National Cybersecurity Education Colloquium was given at the 2023



# Program Progression

This presentation was given at the 2023 National Cybersecurity Education Colloquium

## Institution Commitment



- Institution is designated for a specific program of study and
  - commits to accreditation and continuous improvement
  - commits to support to the program – longevity
  - commits to faculty development
  - commits to a grant

# Institution Commitment





Community



Collaboration



Competency



Student  
Professional  
Development



Youth to  
Retirement  
Pathways



Faculty  
Development

2024 Imperatives

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**CAE  
Community**

**Community  
Development**

**GenCyber  
Communitie  
s**



**Community**

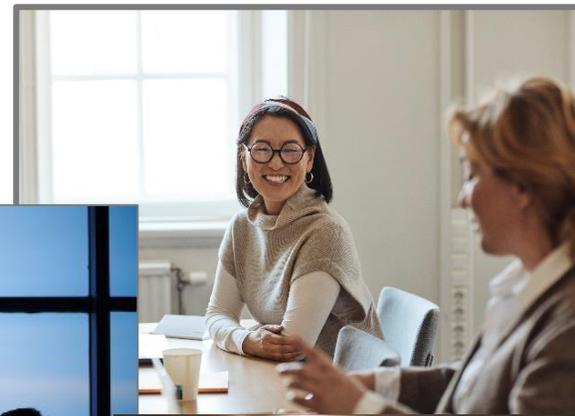
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# PMO and Designated Institutions

- CAE Community
- Candidates Program
- Communities of Practice
- Working Groups

Government Partners

Between NCAE-C Schools



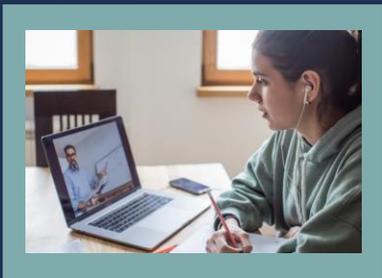
Collaboration

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Careers  
Preparation  
National  
Center

- Labs
- Clinics
- Videos
- Ranges
- Internships
- Curriculum
- Competitions
- Apprenticeships



# Student Professional Development Competency

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**Educatio  
n  
Pathways  
National  
Center**

**Cultivate talent where it  
resides  
Continuing Education  
Upskilling**



**NCTA, CHI,  
CYBERNET**



**Youth to Retirement Pathways**

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## Faculty Development

- Expand qualifications of existing faculty
- Recruit & train retiring private & public industry professionals
- Recruit transitioning military & upskilling professionals
- PhD scholarships requiring graduates to teach at NCAE-C institutions

## Communities of Practice

- Cyber Defense, Cyber Operations, Cyber Research practice groups collaborate on faculty needs, curriculum and other projects



# Faculty Development

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Five coalitions providing support to transitioning military, first responders and other upskilling professionals



Leverage NCAE-C expertise and resources to solve national cybersecurity challenges



# Workforce Development

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▶ Networking

- Peers
- Speakers

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▶ Exhibits

- Partnerships
- Collaboration

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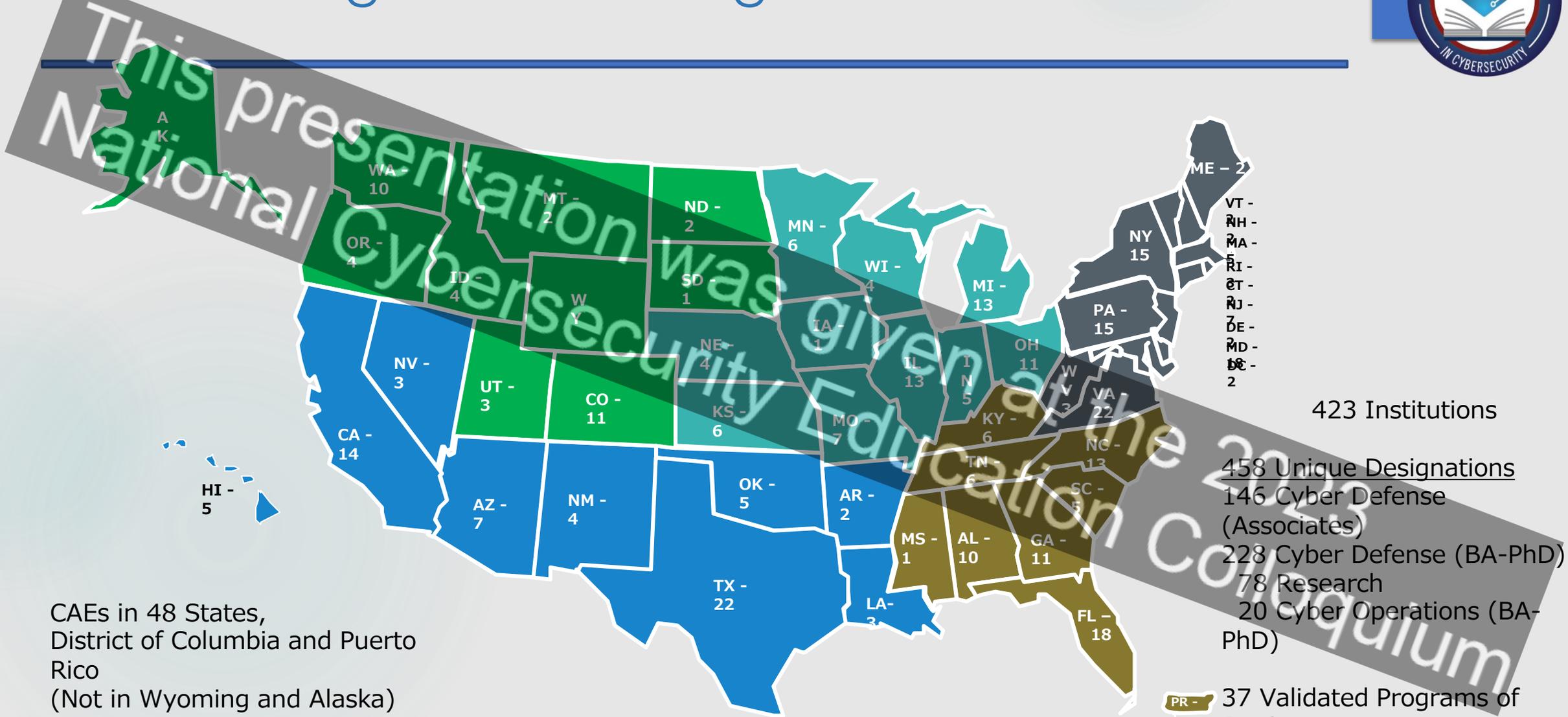
▶ Resources

- Website
  - Draft Grants Book 22/23
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# NCAE-C Regions and Designations



CAEs in 48 States,  
District of Columbia and Puerto Rico  
(Not in Wyoming and Alaska)

423 Institutions

458 Unique Designations  
 146 Cyber Defense  
 (Associates)  
 228 Cyber Defense (BA-PhD)  
 78 Research  
 20 Cyber Operations (BA-PhD)

PR - 37 Validated Programs of Study  
 (Candidates in Designation Process)