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CAE in Cybersecurity Symposium

November 21st-22nd, 2019
Sheraton Grand Phoenix
Phoenix, AZ

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Tony Coulson

CAE in Cybersecurity Community - CAE National Resource Center (CNRC)

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Welcome to the Symposium!

CAE IN CYBERSECURITY COMMUNITY

Each year the CAE in Cybersecurity Community gathers to talk about changes in the program, receive updates from the community, network with other members, and listen to pressing issues in the community. This year, we've invited the CAE-C Program Office, NIST/NICE, and NSF to talk about programs of importance to our community.

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Our Sponsors

CAE IN CYBERSECURITY COMMUNITY

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NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

NATIONAL SECURITY AGENCY
UNITED STATES OF AMERICA

NCYTE CENTER

Special thank you to the National Initiative for Cybersecurity Education, the National Security Agency, and the National Cybersecurity Training & Education Center for sponsoring this event!

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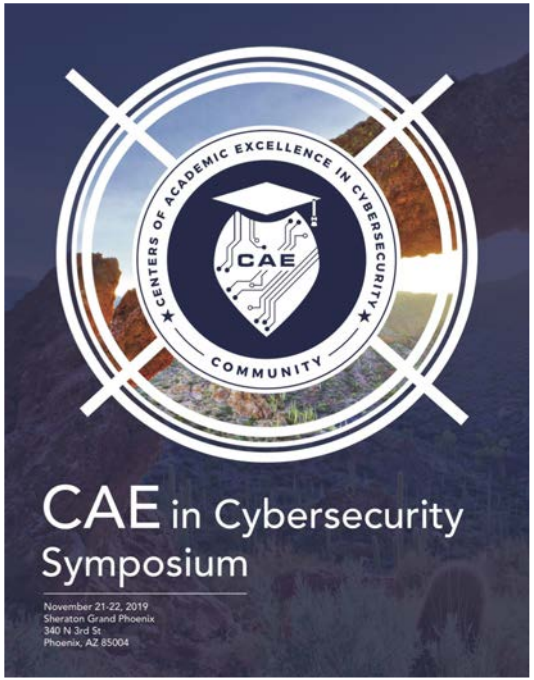
Symposium Program Book

CAE IN CYBERSECURITY COMMUNITY



Use the icons to help you navigate the symposium

You can attend one of two tracks: CAE-CDE and CAE-R

Program book layout follows the agenda

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Symposium Map

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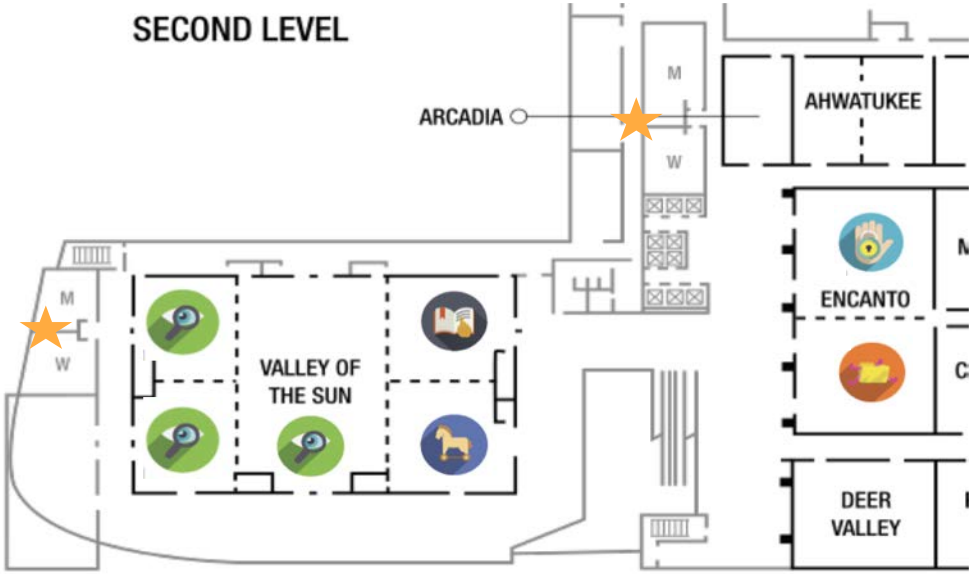
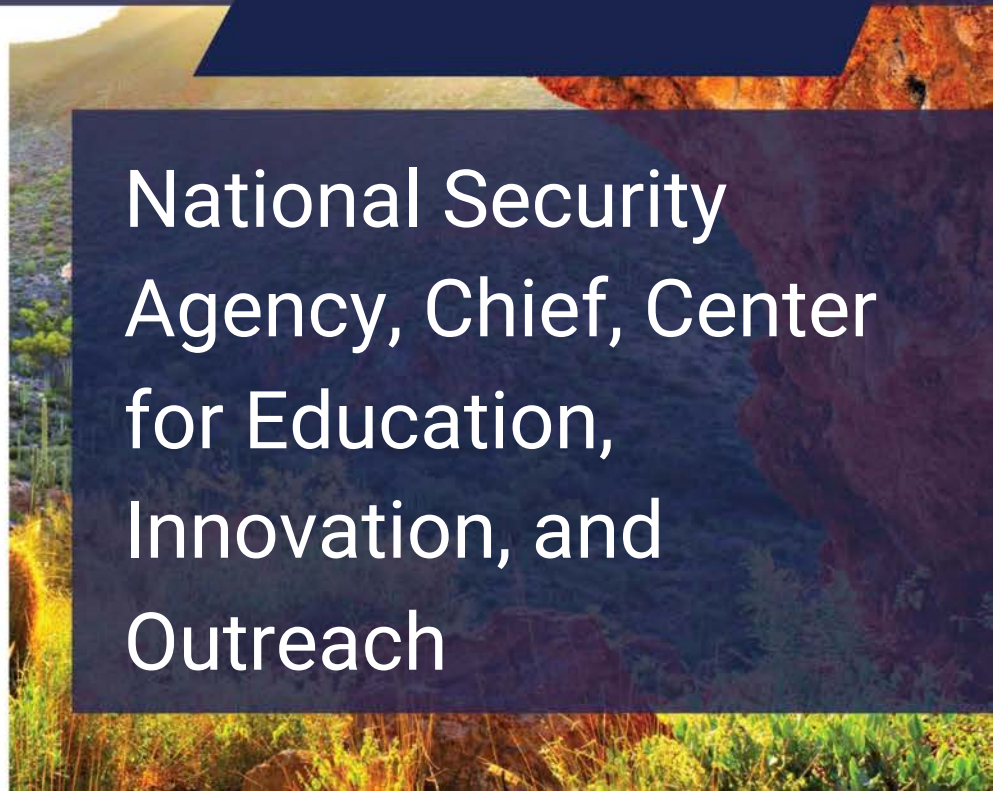


Use the icons to help you navigate to the appropriate room.

Room agendas are posted outside each room (with exception to Valley of the Sun E, but it is marked with an icon).

Carroll Parker

CAE IN CYBERSECURITY COMMUNITY



National Security Agency, Chief, Center for Education, Innovation, and Outreach

Diane Janosek

Commandant of the National Cryptologic School at the National Security Agency

CAE IN CYBERSECURITY COMMUNITY

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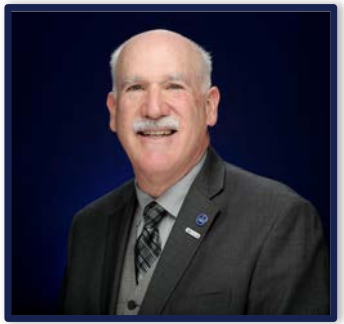
Lynne Clark

Deputy Chief of the Center for Education, Innovation, and Outreach in NSA's National Cryptologic School

Executive Leadership Panel

CAE IN CYBERSECURITY COMMUNITY

Paul J. Maurer, Ph.d President
Montreat College



Lawrence Rose
Dean, JHBC
California State University, San Bernardino

Dr. Ryan Carstens
President
ENMU – Ruidoso Branch Community College

Randy VanWagoner
President
Mohawk Valley Community College

CAE National Resource Center Panel

Tony Coulson
CAE CNRC - CAE Community

Corrinne Sande
CAE CNRC - Candidates Program

Art Conklin
CAE CNRC - KU Development

Margaret Leary
CAE CNRC - Peer Review

National Science Foundation

Corby Hovis, Division of Undergraduate Education Program Director and Li Yang, Division of Graduate Education Program Director

Rodney Petersen

CAE IN CYBERSECURITY COMMUNITY

NICE
NATIONAL INITIATIVE FOR CYBERSECURITY EDUCATION

Director of the National Initiative for Cybersecurity Education (NICE)

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Working Lunch

CAE in Cybersecurity Community Website

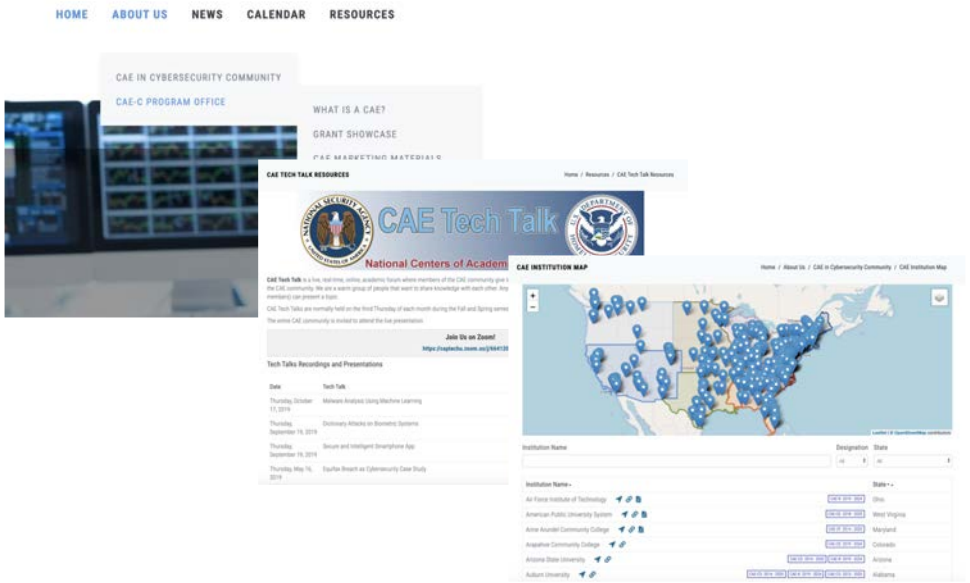
Anastacia Webster, CAE in Cybersecurity Community Program Manager

Overview/Stats

- Users: 1,291
- Weekly Newsletter Subscribers: 1,102
- Weekly Newsletter: 20-25%
- Most popular content:
  - Faculty Jobs
  - CAE Forum/Tech Talk
  - CAE Institution Map

New Additions

- CAE-C Program Office Pages
- Improved CAE-C Map
- Calendar > Events
- CAE Tech Talk

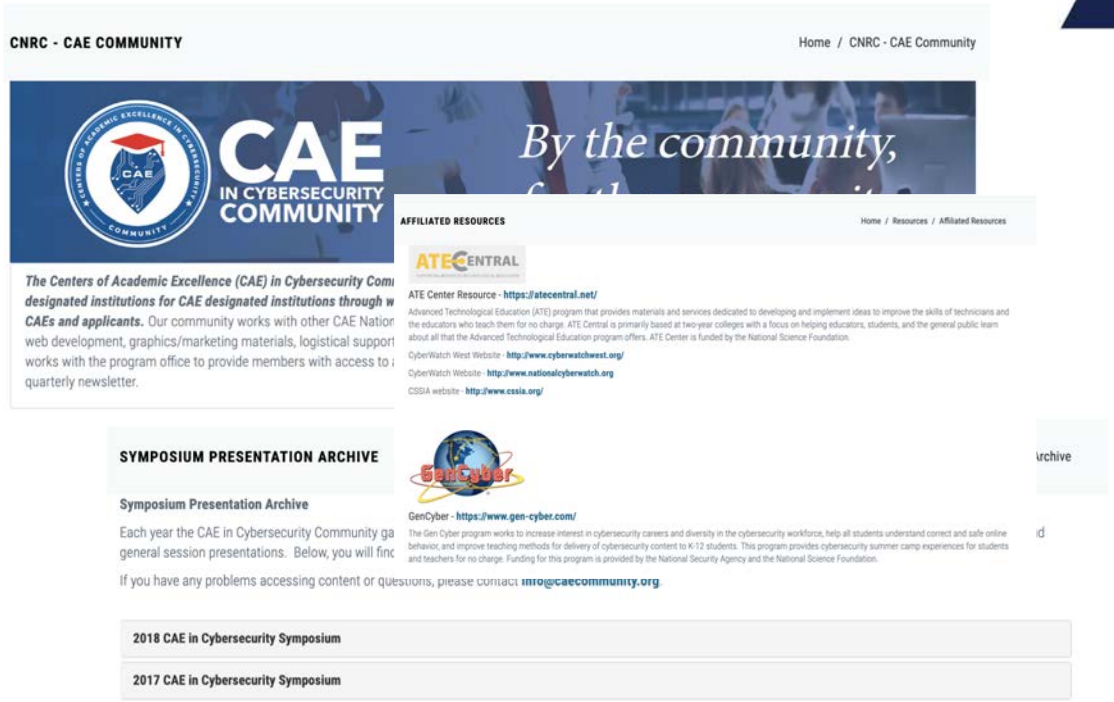


Upcoming Additions

CAE IN CYBERSECURITY COMMUNITY

- CAE in Cybersecurity Community About Us
- Frequently Asked Questions
- Newsletter/Marketing

Reworking Content

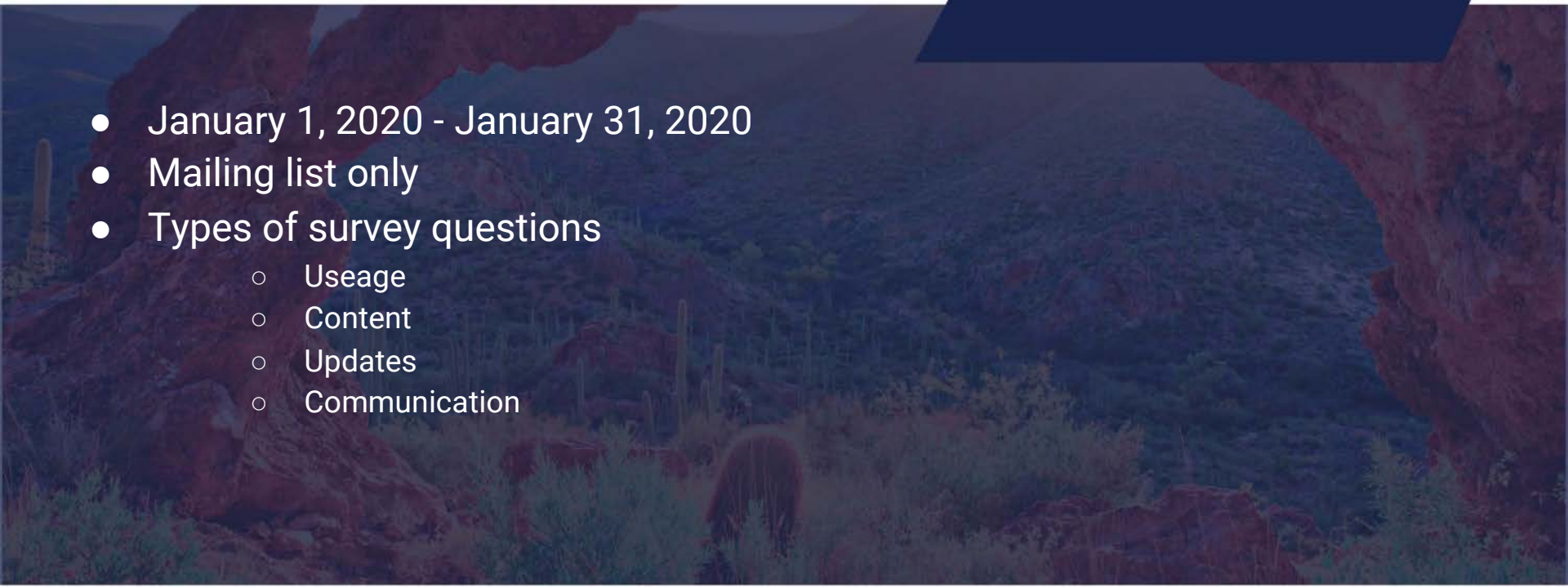


Affiliated Resources

Regional Center Listings

Symposium Presentation Archive

Planned Survey



- January 1, 2020 - January 31, 2020
- Mailing list only
- Types of survey questions
    - Useage
    - Content
    - Updates
    - Communication

It’s all on NICCS™

The Nation’s One-stop-shop for Cybersecurity Careers and Studies!

30,000+ visitors per month

3,000+ cybersecurity training and education courses available across the nation and online

100+ links to cybersecurity resources

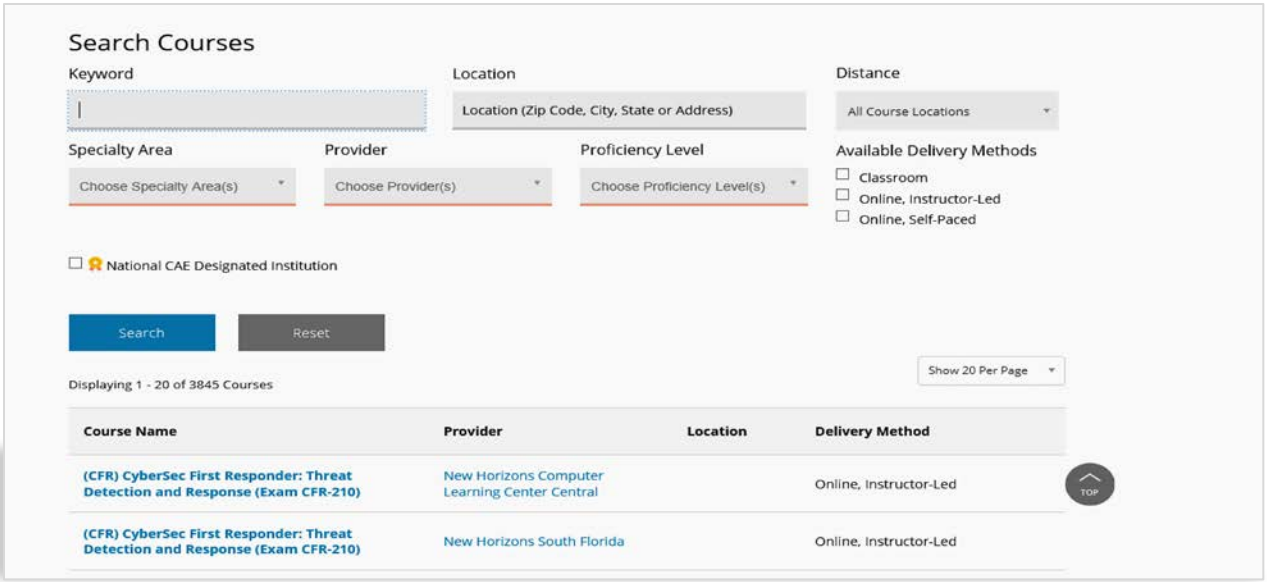
15 cybersecurity career path profiles

40+ Feature Articles

https://niccs.us-cert.gov/

NICCS Training Catalog

The NICCS Education and Training Catalog is a central location to find over 3,000 cybersecurity-related courses across the country and online.

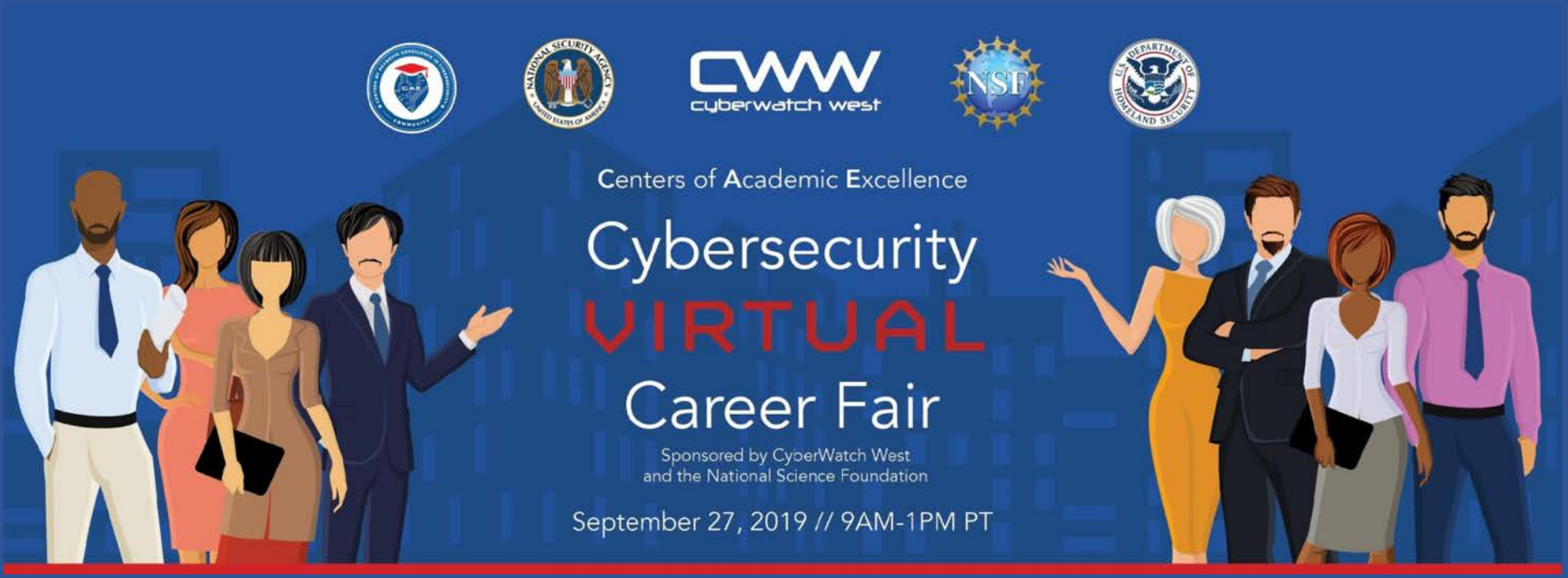


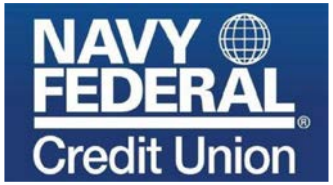
Visit: https://niccs.us-cert.gov/training/search

CAE Virtual Career Fair

CAE IN CYBERSECURITY COMMUNITY

Amy Hysell, CAE in Cybersecurity Community


cyberwatch west
NSF
Centers of Academic Excellence
Cybersecurity
VIRTUAL
Career Fair
Sponsored by CyberWatch West
and the National Science Foundation
September 27, 2019 // 9AM-1PM PT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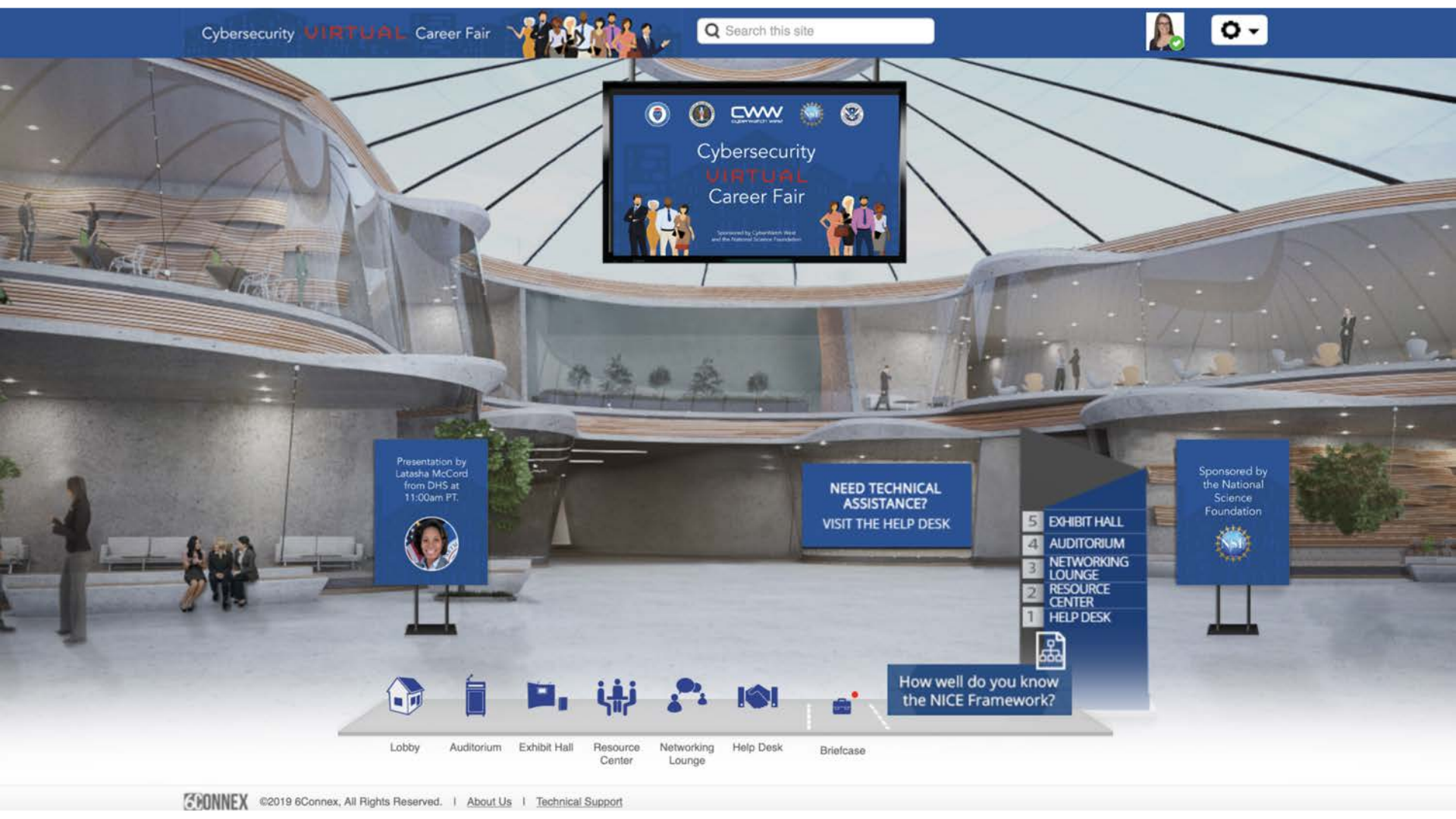
OF ENGINEERING

CYBERSECJOBS
ClearedJobs Net

Over 800 students attended and spent an average of 4 hours in the career fair environment, visiting 24 booth sponsors representing government, industry, and academia.



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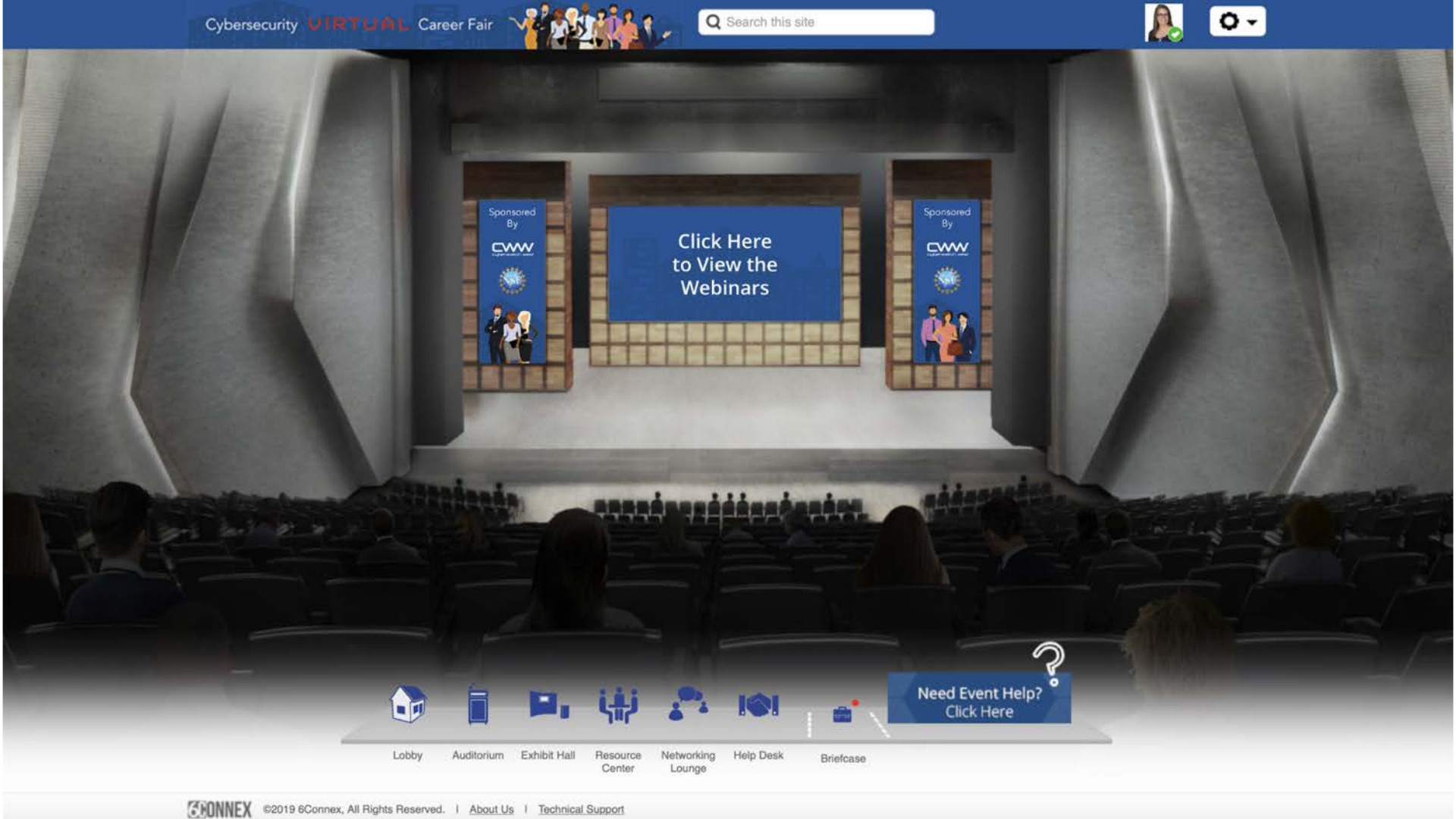

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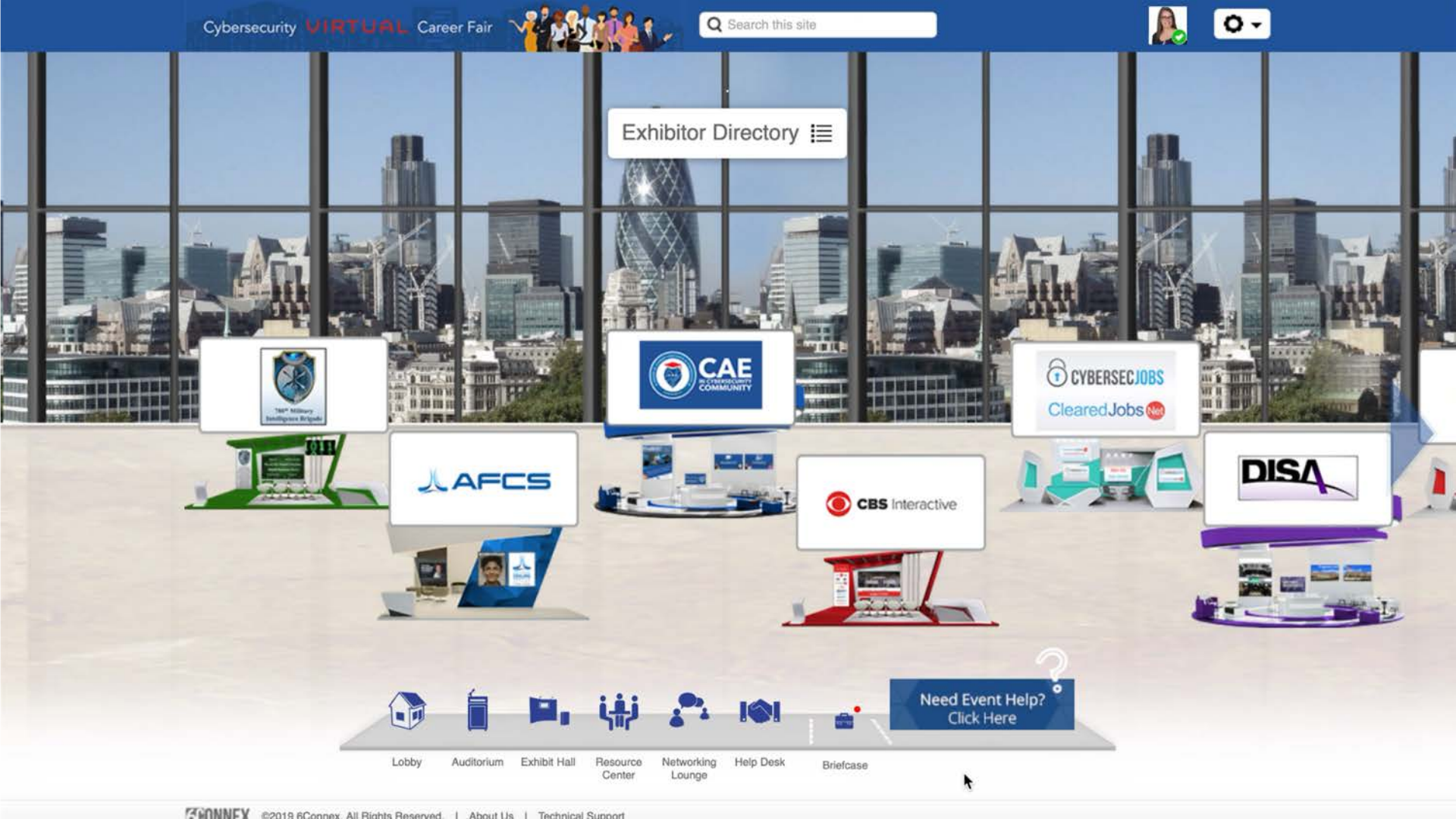

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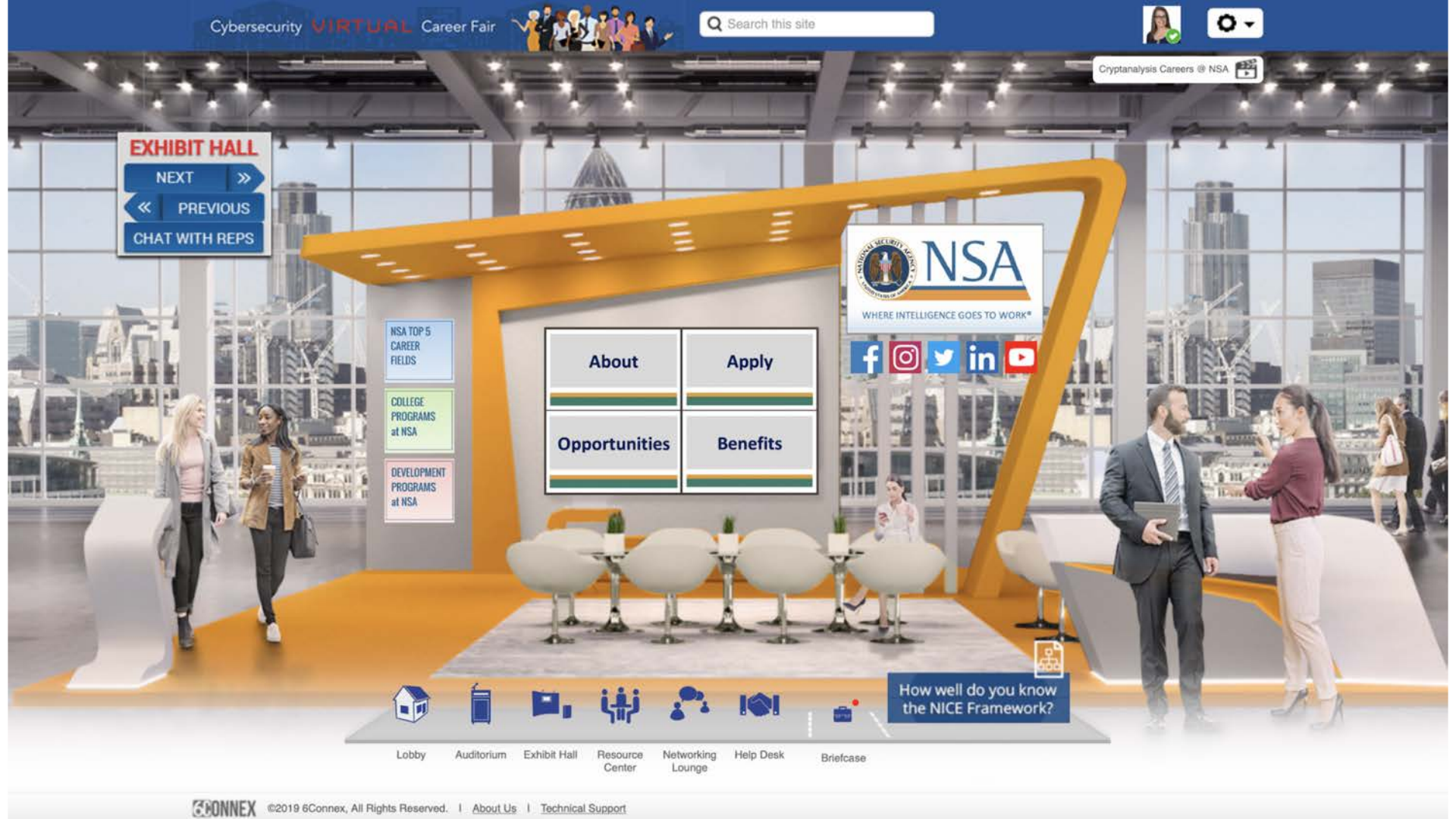

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Launch
Workshop Recording
Learn more about how to structure your resume and nail the interview!
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Provide Feedback
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Lobby
Auditorium
Exhibit Hall
Resource Center
Networking Lounge
Help Desk
Briefcase
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About Us
Technical Support

Institutions with the highest student participation

- Utica College 48
- California State University, San Bernardino 36
- Indiana University of Pennsylvania 32
- Houston Community College 19
- Trident Technical College 19

Cybersecurity workers protect our most important and private information, from bank accounts to sensitive military communications. However, there is a dangerous shortage of cybersecurity workers in the United States that puts our digital privacy and infrastructure at risk.

From October 2018 through September 2019, there were 270,000 openings for Information Security Analysts, but only 112,000 workers currently employed in those positions – an annual talent shortfall of 158,000 workers for cybersecurity's largest job.

There are 235,000 additional openings requesting cybersecurity-related skills, and employers are struggling to find workers who possess them. As a result, the average cybersecurity role takes 20% longer to fill than other IT jobs.

Source: Cyberseek.org, November 2019

NCYTE CENTER

National Cybersecurity Training & Education Center

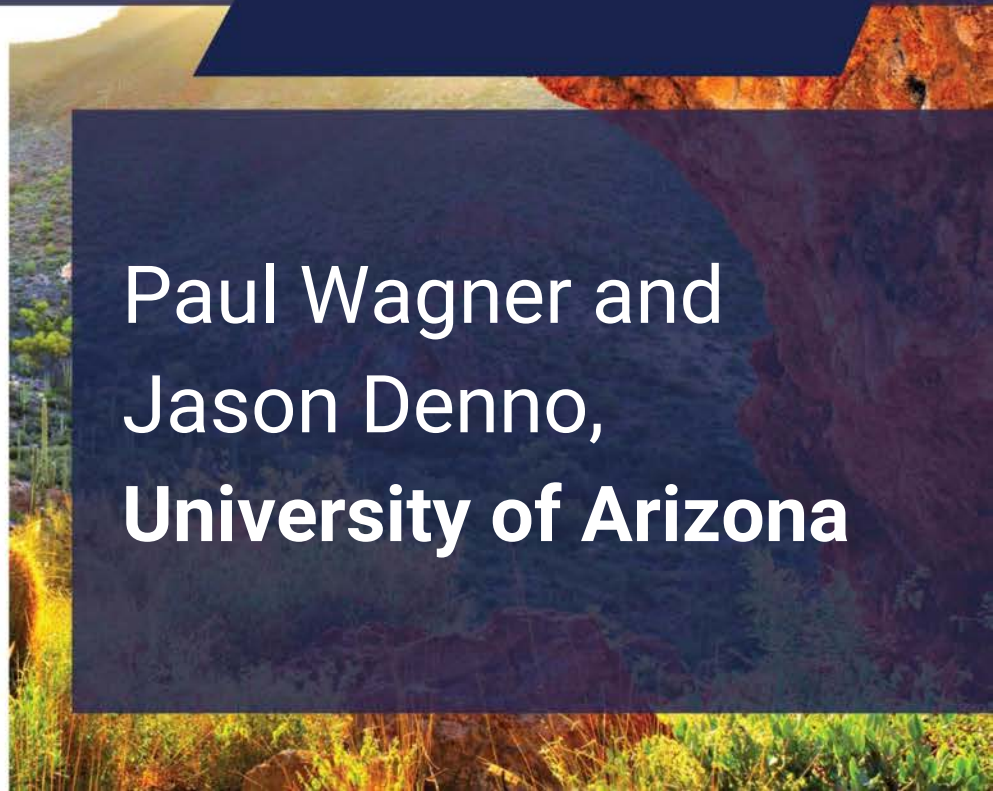
Save the date!

CAE in Cybersecurity Virtual Career Fair

September 4, 2020

Community Spotlight

CAE IN CYBERSECURITY COMMUNITY



Paul Wagner and
Jason Denno,
University of Arizona

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Symposium Map

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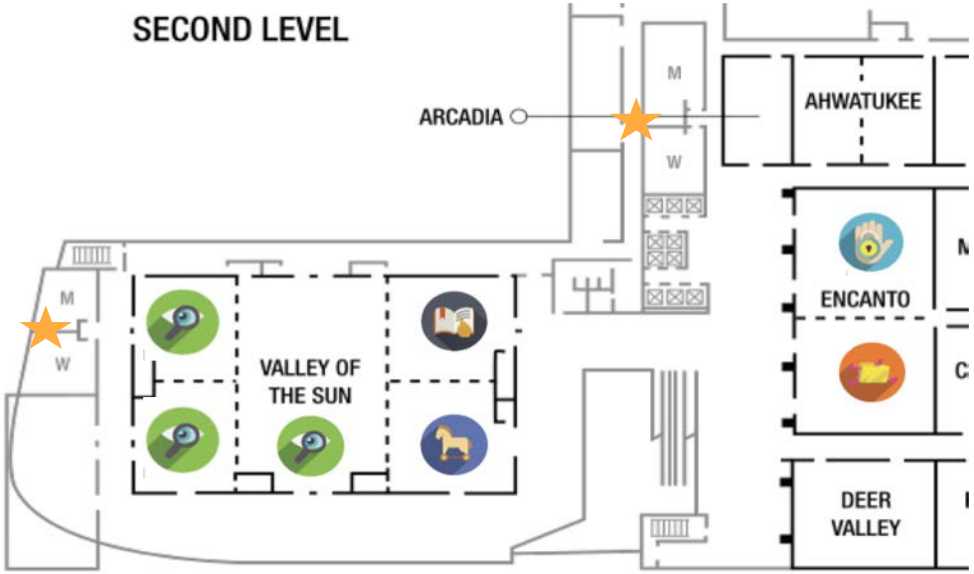

Use the icons to help you navigate to the appropriate room.

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2020 Critical Community Actions and Initiatives

CAE IN CYBERSECURITY COMMUNITY

Lynne Clark, Deputy Chief of the Center for Education, Innovation, and Outreach in NSA's National Cryptologic School

Vincent Nestler Ph.D.

CAE IN CYBERSECURITY COMMUNITY

California State University, San Bernardino

NICE Challenge Project PI

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CAE IN CYBERSECURITY COMMUNITY

Afternoon Break

Fastpitch Sessions

CAE IN CYBERSECURITY COMMUNITY

Each year we ask members of the CAE in Cybersecurity Community to present their research, projects, or meetings that are of interest to the community. This year we have six Fastpitch speakers and a wide range of topics.

Fastpitch Schedule	
Thursday, November 21	
3:00pm-3:10pm	Community College Cyber Pilot (C3P) Program
3:10pm-3:20pm	International Opportunities for Cybersecurity Faculty
3:20pm-3:30pm	An Innovative Approach Using Mixed Reality to Improving Career Readiness
3:30pm-3:40pm	Pathway for Community College Students to an ABET-Accredited Degree in Cybersecurity
3:40pm-3:50pm	Teach Cyber Now: Ask Me How
3:50pm-4:00pm	ACM Cybersecurity Curriculum Guidelines Mapping to CAE Knowledge Units

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CAE IN CYBERSECURITY COMMUNITY

CAE-C Discussion

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CAE IN CYBERSECURITY COMMUNITY

If we had $45 million, what would the government get?

Thank you for attending the 2019 CAE in Cybersecurity Symposium!

All presentations and fast pitch sessions are posted on the CAE in Cybersecurity Community Website. If you have additional questions, please contact info@caecommunity.org.

Additional Meetings

	Evening Meetings	
5:15pm	DoD Cyber Scholarship Program	Mentor/Reviewer Meeting

If you are staying for the evening meetings, please break and return at 5:15pm.

CAE-Cybersecurity Designated Institutions and Resource Centers

This map includes 312 institutions designated as CAE-Cyber Defense and Research programs.

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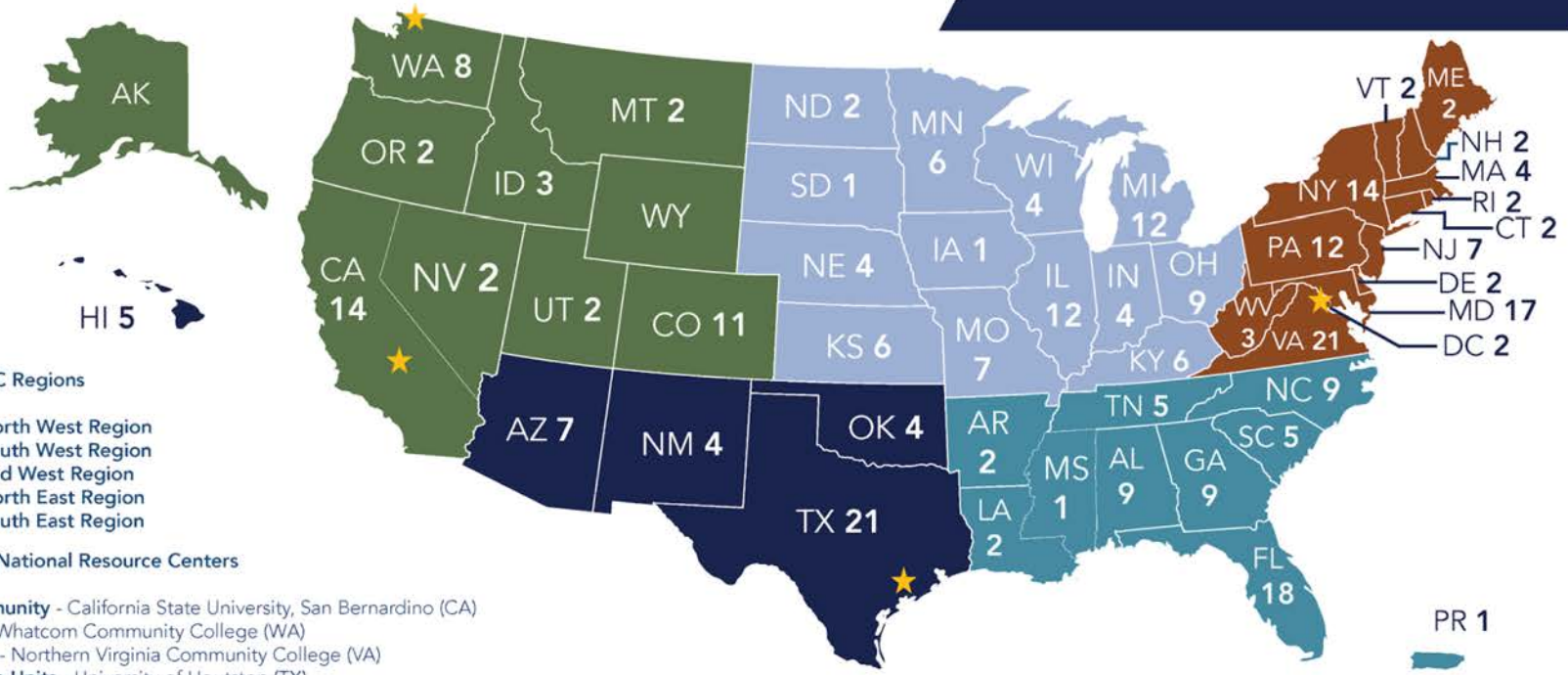

CAE Community - California State University, San Bernardino (CA)
Mentors - Whatcom Community College (WA)
Reviewers - Northern Virginia Community College (VA)
Knowledge Units - University of Houtston (TX)