

CAE Community of Practice

Cyber Defense - New CAE-C POC Onboarding Process



Welcome to All!

CAE-C Program Management Office

Lori Pfannenstien, Cybersecurity Program Manager

Karen Leuschner, Cyber Defense Program Manager

Annie Becker, Deputy Cyber Defense Program Manager

Co-Chairs of the CAE-CD Community of Practice (CoP)

Yair Levy, Nova Southeastern University

Anne Kohnke, University of Detroit Mercy

Co-Chairs of the Onboarding Process Initiative

Faisal Kaleem, Metropolitan State (MN) University

Eric Berkowitz, College of Lake County

Anthony Pinto, University of West Florida

CoP Website: <https://www.caecommunity.org/community-of-practice/cyber-defense>

YouTube link for recordings: www.youtube.com/channel/UCLr52AD7_I-GuW_HyMGc9sA

New CAE-C POC Onboarding Process Agenda



- **Introduction**
 - Who Should Attend?
 - National Centers & Regional Hubs
 - Expectations for CAE Schools
- **CAE-C Redesignation**
 - NCyTE Site
 - Cycles
 - Application Roadmap
 - Access to Tool
 - Continuous Improvement
- **Collaboration and Activities—2Yr vs. 4Yr Perspectives**
 - Tech Talk/Forum Presentations
 - Annual CAE Symposium
 - CAE PI Annual Meeting
 - Career Fairs & Faculty Development
- **Reviewing and Mentoring**
 - Engagement with Regional Hubs; Community at large
 - Cyber Competitions
 - Grants and Scholarships
 - Resources
- **Resource Links**
- **Contact Information**

New CAE-C POC Onboarding Process

Introduction



Community of Practice in Cyber Defense *Mission:*

“To collaborate** with both the CAE Community and the CAE-C Program Management Office (PMO) **to build** a Cybersecurity Excellence Community of Practice in Cyber Defense (CoP-CD) in order **to gather and share input** from the broader community as well as to **provide continuous program improvement”.

What is this initiative and who should attend this meeting?

- New Point of Contacts (PoCs)
- Replacement PoCs
- Alternate PoCs
- Program of Study Contacts (PoS)

New CAE-C POC Onboarding Process

Where Can I Find CAE Community Information?



Program Management Office (PMO) CAEPMO@nsa.gov

CAE National Centers

- 1. CAE Community:** <https://www.caecommunity.org/national-center/cae-community>
 - **CAE-C Regional Hubs** <https://www.caecommunity.org/about-us/cae-regional-hubs>
 - Northeast, Southeast, Midwest, Northwest, and Southwest
 - **Initiatives** <https://www.caecommunity.org/about-us/cae-initiatives>
 - **Communities of Practice** <https://www.caecommunity.org/about-us/cae-communities-practice>
- 2. CAE Candidates Program National Center** <https://www.caecommunity.org/national-center/candidates-program>
- 3. CAE Peer Review National Center** <https://www.caecommunity.org/national-center/peer-review>
- 4. Knowledge Unit Evolution** <https://www.caecommunity.org/national-center/ku-evolution>
 - **CyberEd Wiki** https://cyberedwiki.org/index.php?title=Welcome_to_CyberEd_Wiki

New CAE-C POC Onboarding Process

The CAE-C Designation Types



Current Statistics of CAE Schools:

- **CAE-CD, Cyber Defense** (*300+ institutions*)
- **CAE-R, Research** (*80+ institutions*)
- **CAE-CO, Cyber Operations** (*20+ institutions*)

CAE Institution Map: <https://www.caecommunity.org/cae-map>

DoD Cyber Exchange: <https://public.cyber.mil/ncae-c/>

New CAE-C POC Onboarding Process

Expectations For CAE Schools



- **Keep contact information current**
- Ensure you **receive notifications** and **reply promptly** to the Program Management Office (PMO) CAEPMO@nsa.gov
- Understand the various **POC Designation terms**:
 - *CD, R, CO, Center, each Program of Study (PoS)*
- Ensure you have **access** to the new software application tool:
 - <https://nsa-ncae.com/login>
- **Annual Reports**—submitted to the PMO via the CAE Application tool

New CAE-C POC Onboarding Process



*Presenter: **Faisal Kaleem**
Metropolitan State (MN) University*

New CAE-C POC Onboarding Process

NCYTE Website



Home Resources Membership Events Login About

AP Computer Principles Endorsed
Introductory high school cybersecurity

Learn more >

Centers of Academic Excellence
CAE National Resource Center (CNRC)

Discover Now

Faculty Resources
Teaching Materials
Reference & Reports
Webinars

Explore Now

Industry Resources
Tools for employers to workforce and training resources

Learn More

CAE National Resource Center (CNRC)

Discover Now

Membership at NCYTE Center
Benefits of joining the NCYTE Community

Join Today

<https://www.ncyte.net/>

New CAE-C POC Onboarding Process

NCYTE Website



NCYTE CENTER

Home Resources Membership Events Login About

Welcome to the CAE Candidates Program National Center

Helping Colleges & Universities Successfully Apply for CAE Designations

- CAE-CD**
Center of Academic Excellence: Cyber Defense
Read More
- CAE-CO**
Center of Academic Excellence: Cyber Operations
Learn More
- CAE-R**
Center of Academic Excellence: Cyber Research
Read More
- Mentors & Advisors**
Learn More
- Frequently Asked Questions**
FAQs

<https://www.ncyte.net/resources/cae-designation-resources>

New CAE-CD POC Onboarding Process

PoS and CAE Cycles



Year of Study (PoS) Cycle	Access to Application	Application Due	Pre-submission Review (PSR) Feedback Deadline	Final Submission
PoS Cycle 1	10/15/2020	12/15/2020	1/1/2021	1/15/2021
PoS Cycle 2	11/17/2020	3/15/2021	4/1/2021	4/15/2021
PoS Cycle 3	1/1/2021	5/2/2021	5/16/2021	5/30/2021
PoS Cycle 4	2/15/2021	6/16/2021	6/30/2021	7/14/2021
PoS Cycle 5	4/1/2021	7/31/2021	8/14/2021	8/28/2021
PoS Cycle 6	5/16/2021	9/14/2021	9/28/2021	10/12/2021
PoS Cycle 7		6/30/2021	7/14/2021	7/28/2021
PoS Cycle 8	8/16/2021	3/15/2022	3/30/2022	4/15/2022
PoS Cycle 9	10/5/2021	3/15/2022	3/30/2022	4/15/2022
PoS Cycle 10	4/15/2022	6/15/2022	6/30/2022	7/15/2022
PoS Cycle 11	7/15/2022	9/15/2022	9/30/2022	10/15/2022

CAE Cycle	Access to Application	Application Due	Pre-submission Review (PSR) Feedback Deadline	Final Submission
CAE Cycle 1	3/26/2021	4/9/2021	4/23/2021	5/7/2021
CAE Cycle 2	6/24/2021	7/8/2021	7/22/2021	8/5/2021
CAE Cycle 3	8/8/2021	8/22/2021	9/5/2021	9/19/2021
CAE Cycle 4	9/22/2021	10/6/2021	10/20/2021	11/3/2021
CAE Cycle 5	11/6/2021	11/20/2021	12/4/2021	12/18/2021
CAE Cycle 6	12/21/2021	1/4/2022	1/18/2022	2/1/2022
CAE Cycle 7	9/15/2021	9/29/2021	10/13/2021	10/27/2021
CAE Cycle 8	7/15/2022	9/15/2022	9/30/2022	10/15/2022
CAE Cycle 9	7/15/2022	9/15/2022	9/30/2022	10/15/2022
CAE Cycle 10	10/15/2022	12/15/2022	12/30/2022	1/15/2023
CAE Cycle 11	1/15/2023	3/15/2023	3/30/2023	4/15/2023

<https://www.ncyte.net/resources/cae-designation-resources/cae-cd-application-assistance-resources#one>

New CAE-CD POC Onboarding Process

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PoS Cycle 10	4/15/2022	6/15/2022	6/30/2022	7/15/2022
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CAE Cycle 10	10/15/2022	12/15/2022	12/30/2022	1/15/2023
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New CAE-CD POC Onboarding Process

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PoS Cycle 10	4/15/2022	6/15/2022	6/30/2022	7/15/2022
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Renewal of PoS Validation and CAE designation happens every five years

PoS Cycle 10	4/15/2022	6/15/2022	6/30/2022	7/15/2022
PoS Cycle 11	7/15/2022	9/15/2022	9/30/2022	10/15/2022

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<https://www.ncyte.net/resources/cae-designation-resources/cae-cd-application-assistance-resources#one>

New CAE-C POC Onboarding Process

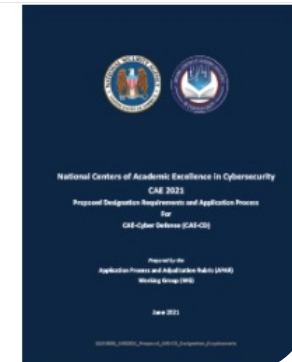
CAE Designation Requirements



CAE-CD Designation Requirements

The CAE-CD Designation Requirements document can answer many of the questions institutions have about the application process. Download the CAE Cyber Defense (CAE-CD) Program Guidance document from the NCAE-C website via the button below.

[NCAE-C Website](#)



<https://www.youtube.com/watch?v=Te2QbbVOwiU>

New CAE-C POC Onboarding Process

CAE Designation Requirements



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[NCAE-C Website](#)



CAE Designation Workshop Video

The CAE Candidates Program National Center at Whatcom Community College (WCC) has developed this two-hour video workshop for regionally accredited U.S. colleges and universities interested in earning the CAE in Cyber Defense (CAE-CD) designation. The workshop is presented by Corrinne Sande, PI / Director of NCyTE and Director, Computer Sciences and Information Systems at WCC.

CAE Program Overview

The first portion of the workshop provides an overview of the CAE program, the designation criteria, the submission timeline, and the new application process.

Part I: Program of Study (PoS) Validation

This portion of the video covers the details of Program of Study Validation and the first part of the application.

Part II: CAE Institutional Designation

The last half of the workshop covers the second part of the application and CAE-CD Institutional Designation.



<https://www.youtube.com/watch?v=Te2QbbVOWiU>

New CAE-C POC Onboarding Process

CAE Designation Requirements



CAE Preparations Starting Guide

These recommended best practices for starting preparations to apply for the CAE-CD designation have been compiled and shared by one of the institutions in the pilot program.

[Download PDF](#)

CAE Preparations File Structure Template

This .zip file contains the recommended file structure, provided by one of the institutions in the pilot program.

Templates for the KU Alignment Summary Tables

This Excel file provides templates for the Knowledge Unit Summary Tables by program type and program level. Also included are several examples of completed tables.

CAE-CD KU Alignment Matrix

This Excel file, developed to help institutions prepare their programs for submission, contains an alignment matrix for each knowledge unit relevant to the CAE-CD designation.

[Download Excel file](#)

New CAE-C POC Onboarding Process

CAE Designation Requirements



TITLE
CAE Cyber Defense (CAE-CD) Program Guidance - 2021
CAE Cyber Operations (CAE-CO) Program Guidance - 2021
CAE Research (CAE-R) Program Criteria - 2021


TITLE

<https://public.cyber.mil/ncae-c/documents-library/>

<https://www.caecommunity.org/about-us/national-cae-cybersecurity-program/applicant-checklist>¹⁷

New CAE-C POC Onboarding Process

CAE Designation Requirements



DoD CYBER EXCHANGE PUBLIC

NATIONAL CENTERS OF ACADEMIC EXCELLENCE IN CYBERSECURITY (NCAE-C)

NCAE-C Home

CAE Requirements and Resources

Previous CAE (NIETP) Applications for History

Designated Institutions

National Centers of Academic Excellence in Cybersecurity Application Tool Login

Contact

CAE-CD Program Eligibility and Summary

The CAE-CD Program is open to current regionally accredited:

- Four-year Colleges
- Graduate-level Universities
- Two-year Community Colleges
- Technical Schools
- State or Federally Endorsed Cybersecurity Training Centers
- U.S. Government Cybersecurity Training Centers

[Start Applicant Checklist](#)

[Download CAE-CD Checklist](#)

CAE-CO Program Eligibility and Summary

The CAE-CO Program is open to current regionally accredited:

- Four-year Colleges
- Graduate-level Universities
- Must be based within a Computer Science, Electrical Engineering or Computer Engineering Department, or a degree program of equivalent Technical Depth, or a Collaboration between Two or more of these Departments

[Start Applicant Checklist](#)

[Download CAE-CO Checklist](#)

CAE-R Program Eligibility and Summary

The CAE-R Program is open to current:

- Department of Defense (DoD) schools
- Ph.D. producing military academies
- Regionally accredited, degree granting four-year institutions rated by the Carnegie Foundation Basic Classification system as either:
 1. Doctoral University – Highest Research Activity (R1),
 2. Doctoral University – Higher Research Activity (R2), or
 3. Doctoral University – Moderate Research Activity (R3)

[Start Applicant Checklist](#)

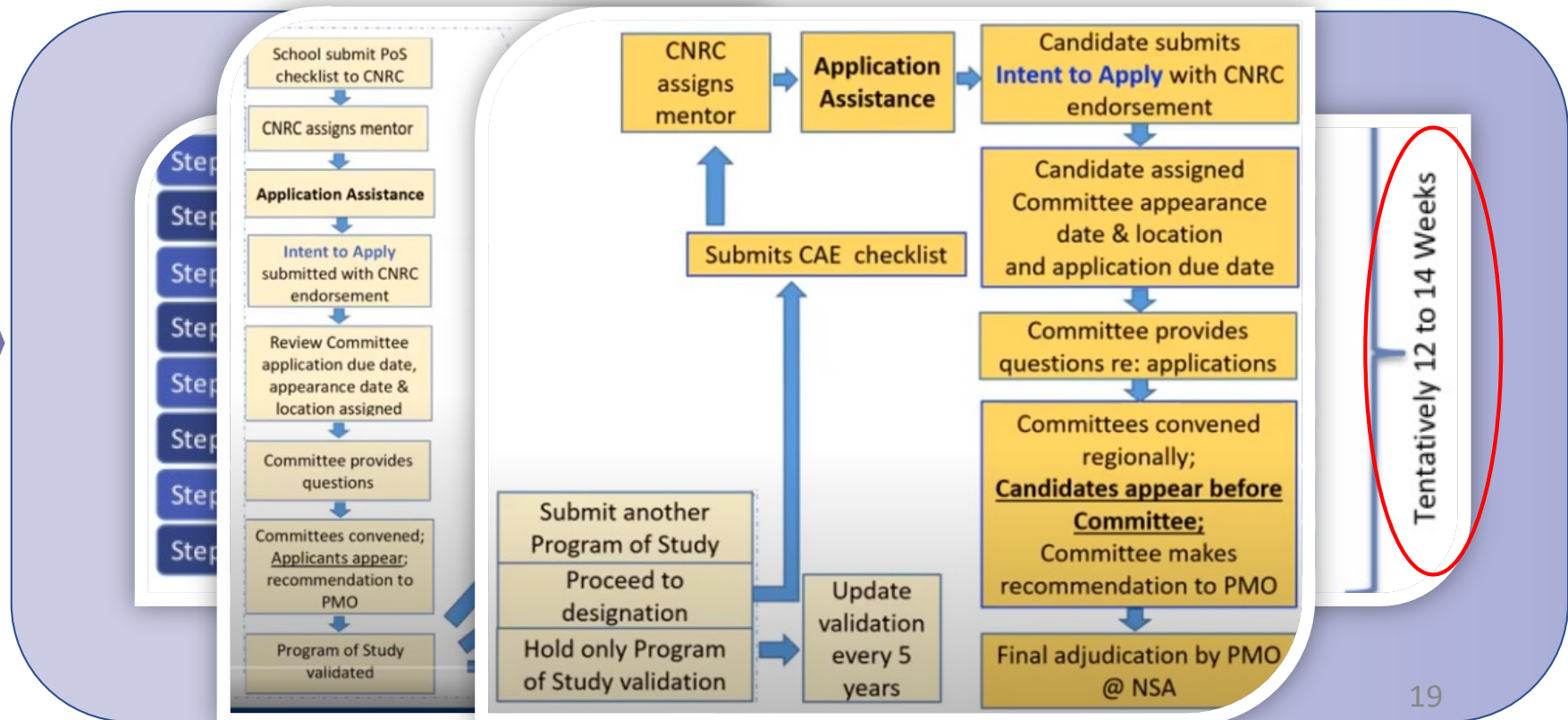
[Download CAE-R Checklist](#)

<https://public.cyber.mil/ncae-c/documents-library/>

<https://www.caecommunity.org/about-us/national-cae-cybersecurity-program/applicant-checklist>

New CAE-C POC Onboarding Process

Application Process



New CAE-C POC Onboarding Process Application Submission (OLD) Tool



NCAE REQUIREMENTS AND RESOURCES

Planned Outages - Every Monday and Wednesday from 0530-0630 EDT/EST.
NOTE: Outage scheduled for 11/11 will occur on 11/12.
We apologize for the inconvenience.

General Information
Home
CAE Requirements and Resources
Contact Us
Security Warnings
Login/Join

NCAE Criteria:

- [CAE Cyber Defense Education \(CAE-CDE\) Program Guidance - 2021](#)
- [CAE Research \(CAE-R\) Program Criteria - 2021](#)
- [CAE Cyber Operations \(CAE-CO\) Program Guidance - 2021](#)

NCAE Knowledge Units

- [CAE-CDE Knowledge Units](#)
- [CAE-CO Knowledge Units](#)

NCAE Program Resources:

- [CAE Applicant Checklist](#)
- [CNRC Candidates Program Information](#)
- [Regional Accreditation Information](#)
- [CAE-CDE KU Alignment Matrix](#)

NCAE-CDE KU Mapping to NICE Framework

- [NCAE KU Mapping to NICE FW 2.0](#)
- [NICE KU Mapping spreadsheet](#)

Terms of Use | Accessibility/Section 508 | NSA.gov | FOIA | NSA Cybersecurity | CNSS.gov

<https://www.iad.gov/NIETP/CAERrequirements.cfm>

New CAE-C POC Onboarding Process Application Submission (OLD) Tool



<https://www.iad.gov/NIETP/CAERequirements.cfm>

New CAE-C POC Onboarding Process Application Submission (NEW) Tool



<https://www.youtube.com/watch?v=s9DU1sTRUNA&t=2s>

<https://nsa-ncae.com/login>

New CAE-C POC Onboarding Process Application Submission (NEW) Tool

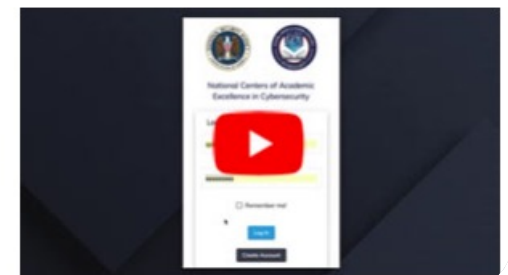


CAE Application Submission Tool Demonstration Video

This 7-minute, 30-second video provides an overview of how to use the online tool to submit your application.

[Watch Video](#) 

<https://www.youtube.com/watch?v=s9DU1sTRUNA&t=2s>



Log In

Create Account



The CAE application is partially funded by the
National Science Foundation Grant
#1548315.

<https://nsa-ncae.com/login>

New CAE-C POC Onboarding Process

Application Submission (NEW) Tool



ional Centers of Academic Excellence in Cybersecurity

Applications

Metropolitan State University

Users

First name	Last Name	Email	Role	Institution's User Access Manager?
Faisal	Kaleem	faisal.kaleem@metrostate.edu	Review Committee Chair,Reviewer,Mentor/Advisor,Institution POC,CAE Institution User	<input checked="" type="checkbox"/>
Khaled	Rabieh	khaled.rabieh@metrostate.edu	Institution Alternate-POC	<input type="checkbox"/>

President Job Title

Dr.

President Email

ginny.arthur@metrostate.edu

President Phone

6517931900

New CAE-C POC Onboarding Process

PoS Validation Requirements



1. PoS Curriculum

- a) The Cybersecurity PoS Offered by the Institution
- b) NICE Framework Crosswalk Alignment
- c) Courses Syllabi and Courses Requiring Applied Lab Exercises (For KU Aligned Courses Only)
- d) Curriculum Map and Plan with Assessment Documentation
- e) Knowledge Units (KUs) Alignment (See Appx. 3)
- f) Graduate Thesis/Dissertation/Equivalent Guidelines and Process (Masters and Doctoral programs only)

3. Faculty Members

- a) Cyber Program(s) of Study PoC
- b) Full-time, part-time, and adjunct faculty members + Faculty qualifications (publications, research, industry involvement, certifications, etc.) related to PoS type
- c) Faculty support of enrolled students
- d) Process of Faculty Promotion/Reappointment (e.g. Faculty Policy Manual)

2. Students

- a) Student enrollment/graduation in the PoS(s)
- b) CAE-CD: Sample student certificate/notation on transcript/official letter
- c) Students work products (papers, assignments, labs, etc.)
- d) Students participation in extracurricular activities

4. Continuous Improvement

- a) Continuous Improvement plan
- b) Continuous Improvement process
- c) Regular evaluation schedule

New CAE-C POC Onboarding Process

CAE Designation Requirements



1. Accreditation
2. Institution Commitment (letter of intent and endorsement)
3. Evidences of Sound Cybersecurity Posture and Plan
4. Established “Center” for Cybersecurity
5. Affirmation of the CAE Core Values and Guiding Principles
6. Sustainability
7. Professional Development
8. Cybersecurity Academic Integration
9. Outreach
10. Transfer of Credit/Articulation Agreements

New CAE-C POC Onboarding Process

Post Designation Requirements



1. Annual Report of Institutional Metrics
2. Maintain Correct Contact Information
3. Major Changes to Designated Program of Study(ies) (PoSs)
4. Continuous Improvement Plan and Process
5. Participation in various CAE activities
6. Attending the annual CAE Community Symposium and/or the annual PoC meeting, and/or regional CAE community meetings

New CAE-C POC Onboarding Process

Recommended Actions to keep the designation



- Focus on Continuous Improvement
- Regularly conduct the program's advisory board meetings and maintain minutes
- Integrate cybersecurity contents into programs other than PoS
- Outreach to other institutions and help them with their cyber needs
- Invest in cyber competitions
- Play an active role in CAE community



<https://www.caecommunity.org/events/calendar>

New CAE-C POC Onboarding Process

Recommended Actions to keep the designation



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- Play an active role in CAE community

CAE COMMUNITY

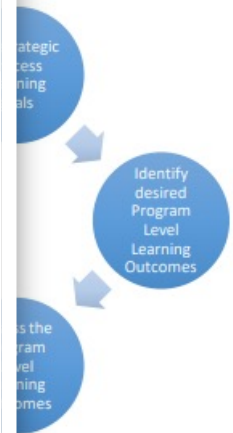
HOME ABOUT US NEWS EVENTS CAE MAP RESOURCES

CALENDAR EVENT FEED Events / Calendar

December 2021

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1	2	3	4
		04:30 pm NCX Tech Talk	10:00 am CAE Forum	04:30 pm NCX Tech Talk		
5	6	7	8	9	10	11
	09:00 am NICE K12 Cybersecurity Education Conference	04:30 pm NCX Tech Talk		11:00 am Getting To Know		
				04:30 pm NCX Tech Talk		
12	13	14	15	16	17	18
				10:00 am CAE Tech Talk		

Play an active role in CAE community
<https://www.caecommunity.org/events/calendar>



New CAE-C POC Onboarding Process

Useful Suggestions



- Make sure that you are aware of and have access to the following items: Institution's accreditation reports, IT Security plans, Awareness trainings
- Become friends with the institution's accreditation officer, CIO, CISO
- Established Center for Cybersecurity must have all the required and up to date contents and must be hosted as part of the institution's domain
- Engage with your respective regional hub
<https://www.caecommunity.org/about-us/cae-regional-hubs>

New CAE-C POC Onboarding Process

Useful Suggestions



- Make sure that you are aware of and have access to the

- The "Center" Website (URL) is visible within the institution and the external community at large
- "Center" POC is noted
- Information about and link to the program page of the Validated PoS(s)
- Faculty members
- Links to student cybersecurity activities available to students at the institution and beyond
- News that include both internal and external cybersecurity news. Internal news should highlight cybersecurity activities and efforts at the institution and/or other cybersecurity activities of students and faculty representing the institution. External cybersecurity news should highlight up-to-date trending cybersecurity information
- Link to the institutional security resources and awareness
- Up-to-date links to key cybersecurity resources for students such as cyber competitions
- Documentation on the Industry Advisory Board/Committee

<https://www.caecommunity.org/about-us/cae-regional-hubs>

New CAE-C POC Onboarding Process

Useful Suggestions



HOME ABOUT US ▾ NEWS EVENTS ▾ CAE MAP RESOURCES ▾ Q

MIDWEST REGIONAL HUB

Regional Hubs / Midwest Regional Hub



<https://www.caecommunity.org/about-us/cae-regional-hubs>

Leading Institution: Moraine Valley Community College

New CAE-C POC Onboarding Process



*Presenter: **Eric Berkowitz**
College of Lake County*

New CAE-C POC Onboarding Process

Collaboration with other Schools



- **Four Year Schools**
 - Research projects, joint funding proposal, grant proposals
 - Publishing in peer reviewed journals, sitting on committees in each others institutions
- **Two year Schools**
 - Curricular development
 - Resource development
- **Both**
 - Joint job fairs
 - Jointly hosted conferences
- *It does not always have to be large, you may be working together already*

New CAE-C POC Onboarding Process

Attend ...



- **Annual CAE Symposia**
 - Meet peers outside of your regional “bubble”
 - Meet cyber persons outside of your professional “bubble”
- **CAE Principals Annual Meetings**
 - Find out opportunities
 - Find out changes in the changes in the program
- **It’s a Community**
 - People should know you and your name
 - Learn about opportunities



New CAE-C POC Onboarding Process

Tech Talks & Forums



CAE Tech Talks are recorded: <https://www.caecommunity.org/resources/cae-tech-talk-resources>
For questions on CAE Tech Talk, please send email to CAETechTalk@nsa.gov

- **Attend a few**
- **See how they are done**
- **Find something you are currently working on and have common interest**
- **Be relaxed, prepared, and deliver one alone or with a co-presenter**

New CAE-C POC Onboarding Process *Career Fairs*



- Your school probably has an office that will help
- It probably does not specialize in tech
- Start with employers that have hired your graduates and trust your program
- Invite hiring managers and external team leaders to prep your students
- Win-Win is the only way to Win



New CAE-C POC Onboarding Process



*Presenter: **Anthony Pinto**
University of West Florida*

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Become a Reviewer and/or Mentor



- **ENMU-Ruidoso is the CAE Peer Review National Center**
 - works with the NCAE-C Program Management Office to train reviewers and execute peer reviews of applications for Academic Endorsement and/or NCAE-C Designation.
 - Peer Reviewers - review CAE-CD application for compliance with the CAE-CD Standards
- **Whatcom College manage designated institutions to apply for designation or re-designation.**
- **CAE Mentor program managed by Whatcom College**
 - CAE Mentors are assigned to schools in the Application Assistance Phase.
 - The mentor assists the school in completing the application.
 - The National Cybersecurity Training and Education Center (NCyTE) at Whatcom Community College (WCC) manages the program
 - <https://www.ncyte.net/resources/cae-designation-resources>

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Engage with the Regional Hubs and the CAE Community



- A requirement for any CAE School is continued engagement with other CAE Schools.
- Each Regional Hubs has regular meetings, and activities that each schools is expected to participate in.
- <https://www.caecommunity.org/about-us/cae-regional-hubs>
- In addition the CAE Community Website for current events including workshop and national events
<https://www.caecommunity.org/events/calendar>
- The NCyTE also holds workshop and involvement opportunities

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Cyber Competitions



- **Global Collegiate Penetration Testing Competition**
 - Focuses on mimicking the activities performed during a real-world penetration testing engagement
 - It is conducted by companies, professional services firms, and internal security departments around the world.
- **The NICE Challenge Project**
 - develops real-world cybersecurity challenges within virtualized business environments
 - provides the most realistic experiences to students, at-scale year-round
 - generates useful assessment data about their knowledge, skills, and abilities for educators.

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Grants and Scholarship Opportunities



- **As a CAE Designated Schools your institution will be able to apply for multiple grants as funding allows. Funding is not guaranteed.**
- **Most grant announcements will come via an email from the CAE Program office.**
- **Scholarship Opportunities include**
 - **NSF Scholarship For Service (SFS)**
 - **Provides scholarships for up to 3 years for cybersecurity undergraduate and graduate (MS or PhD) education.**
 - **Recipients must agree to work after graduation for the U.S. Government.**

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Grants and Scholarship Opportunities



- **DoD Cyber Scholarship Program**
 - Provides scholarships for students in Cyber Programs
 - Students are required to work for the DoD a minimum of one year for each year of scholarship support they receive.
- **Web Sites**
 - CAE Community <https://www.caecommunity.org/>
 - NCyTE Center <https://www.ncyte.net/>
 - NSF Scholarship for Service <https://www.sfs.opm.gov/>
 - DoD Cyber Scholarship <https://public.cyber.mil/dcysp/>

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*Presenter: **Anne Kohnke**
University of Detroit Mercy*

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Resource Links



- **CLARK—Cyber Lab Resource Knowledge** <https://clark.center/home>
- **CARD—Cyber Education Resource Directory** <https://www.caeresource.directory/home>
- **CSSIA, Moraine Valley’s Center** <https://www.cssia.org/>
 - **E-Mate Interactives** <https://www.cssia.org/interactives/>
- **National Center of Academic Excellence in Cybersecurity:** <https://public.cyber.mil/ncae-c/>
- **DoD Cyber Scholarship** <https://public.cyber.mil/dcysp/>
- **GenCyber, National K-12** <https://www.gen-cyber.com/>
- **NICE Challenge Project Webportal** <https://nice-challenge.com/>
- **NICE Framework Resource Center** <https://www.nist.gov/itl/applied-cybersecurity/nice/nice-framework-resource-center>
- **NSF Scholarship for Service** <https://www.sfs.opm.gov/>
- **National Cyber League** <https://nationalcyberleague.org/>
- **NCyTE Center Workshops** <https://www.ncyte.net/resources/cybersecurity-education-workshops>

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Contact Information



Program Management Office (PMO)

CAEPMO@nsa.gov

- **Lori Pfannenstein**, Cybersecurity Program Manager
- **Karen Leuschner**, Cyber Defense Program Manager
- **Annie Becker**, Deputy Cyber Defense Program Manager
- **Jason Smith**, Cyber Operations Program Manager

AskCySP@nsa.gov

- **Alice Smitley**, DoD Cyber Scholarship PM
- **Emily Vogel**, DoD Cyber Scholarship PM