



CAE
IN CYBERSECURITY
COMMUNITY

CCNC

at Whatcom Community College

CAE
Candidates
National
Center

Michele Robinson, Executive Director

Stephen Troupe, CCNC Director

Stephen Miller, PRNC Director

The background of the slide is a photograph of a historic street scene. In the foreground, there are several tall palm trees with green fronds. Behind them are colorful, multi-story buildings in shades of yellow, blue, and white. In the distance, a tall, white church steeple with a clock face is visible against a clear blue sky. A semi-transparent blue rectangle is overlaid on the left side of the image, containing the agenda text.

Agenda

- What We Do
- Report of CCNC Outcomes
- What We Do with Others: Key Partnership Initiatives
- Breakout Session Opportunities



What the CCNC & PRNC Do

Grant funded by National Centers of Academic Excellence in Cybersecurity (NCAE-C) at the National Security Agency (NSA)

CAE Candidate National Center (CCNC)

1. Support Academic Institutions:

- Provide comprehensive support through mentorship, workshops, and guidance to facilitate successful application submissions and readiness endorsements.

2. Standardize Mentoring Processes and Training:

- Conduct comprehensive training workshops for mentors and pre-submission reviewers to ensure consistency and proficiency.

3. Develop and Manage NCAE application Tool:

- Integration of application requirements and tool functions.

Peer Review National Center (PRNC)

- Train reviewers and execute peer reviews of Program of Studies (PoS) for Academic Validation and/or NCAE-C/CO/R Designation.
- Manage peer review panels based on readiness of Candidates to submit applications or Designated institutions to apply for re-designation.
- Provide Checklist reviews and assignments to either the Candidates Program or the CAE Program Development



CAE
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COMMUNITY

Total CAE
Designated:

- **467 CAE-C Designations**

Application
Assistance:

- **144 Active**

Program
Development

- **15 Active**

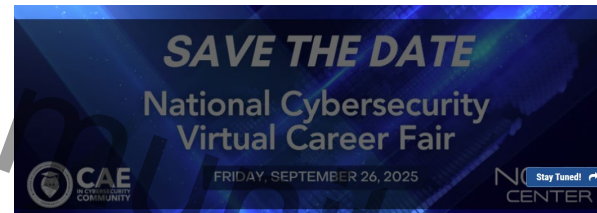




What we do
with other CAE
& NSF National
Centers

1. National Cybersecurity Virtual Career Fair

- Provide NCyTE (NSF Grant) funding and Co-Sponsorship with CAE Community
- Save the date: Friday, September 26th, 2025
- Prepare Your Students to Engage with Employers Now!



2. Clark.Center

- Provide NCyTE (NSF ATE grant) funding for Clark.Center platform and Towson staff.
- The largest platform that provides **FREE** cybersecurity curriculum and home to high-value, high-impact cyber curriculum created by top educators, and reviewed for relevance and quality.





What we do with other CAE & NSF National Centers

NCyTE CENTER National Cybersecurity Training & Education Center



3. National Cybersecurity Training & Education Center

- Provides a wealth of NCyTE (NSF Grant) funded programs, products and services to the CAE Community

NCyTE Mission: We Develop Individuals to Secure the Nation

- **Goal 1: Expand cybersecurity education pathways**
- **Goal 2: Develop and deploy leading edge curriculum**
- **Goal 3: Cultivate industry engagement and career opportunities**
- **Goal 4: Disseminate efforts to improve current and future directions of cybersecurity education**



What we do with other CAE National Centers?

4. Key CAE Impact Research

- Provide NCyTE (NSF ATE grant) funding for research on cybersecurity program impacts.
- **2019 Workforce Study: Community College Cybersecurity Alumni-Where Are They Now?**
 - A six-month study examining the success of community colleges placing cybersecurity professionals.
 - A **2025 Cybersecurity Workforce Study update** investigates the career trajectories of higher education cybersecurity graduates (NCyTE, 2024). The findings of the study highlight the increasing impact of CAE programs in addressing workforce shortages and aligning graduates with the NICE cybersecurity work roles.
 - Researcher is Tobi West, with Coastline Community College with an anticipated publication in May 2025.
- **2021 Centers of Academic Excellence (CAE) Impact Study**
 - The study focused on such issues as enrollments, faculty retention, the attraction of federal grants, and economic impact on the region.
 - In addition, the study examined two case studies of CAE-designated colleges: Whatcom Community College (WCC) in Bellingham, WA, and Jackson State Community College in Jackson, TN.
 - The study estimated that across WCC student, graduate, and operations spending between 2012 and 2019, CAE designation has contributed toward a cumulated \$16.3 million in earnings and 948 new jobs in the region surrounding the college.



What we do with other CAE National Centers?

4. Key CAE Impact Research (Cont.)

- Provide NCyTE (NSF ATE grant) funding for research on cybersecurity program impacts.
- **2023 NCyTE team visit to UK: A cybersecurity education information exchange**
 - This report is the result of an NCyTE Academic delegation's 5-day visit to the United Kingdom. The visit resulted in a foundation for a sustainable international collaboration between practitioners and institutions on cyber security training and education.
 - Now established as the [International Cybersecurity Education Collaborative \(ICEC\)](#) with three special interest groups focused on industry, access, and innovation in the classroom.
- **2025 Cybersecurity Program Coding: A Critical Step for Assessing Education to Workforce Outcomes**
 - This study's primary objective is to evaluate how existing cybersecurity programs nationwide are classified and whether they are categorized consistently based on program content, and providing accurate program-level data for reporting post-graduation employment outcomes and labor statistics.
 - Researcher is Seattle Jobs Initiative, with an anticipated publication in May 2025.
 - We are seeking additional feedback on the final draft report and facilitating a discussion surrounding the recommendations in the report.



Breakout Sessions

Cybersecurity Program Coding: Critical to Assessing Education to Workforce Outcomes

CNNC & PRNC Strategic Working Group: Program Overview and Open Discussion

The background of the slide is a photograph of a historic street scene. In the foreground, there are several tall palm trees with green fronds. Behind them, a row of colorful, multi-story buildings with white trim and dark shutters lines the street. In the distance, a tall, white church steeple with a pointed top rises above the rooftops. The sky is a clear, pale blue. A large, semi-transparent blue rectangle is overlaid on the left side of the image, containing white text.

**Opportunities for
Feedback & Discussion:**

We want to hear from you!



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Resources:

- CAE Candidates Program National Center
- CAE Community
- NSA CAE Program Office
 - Website:
<https://public.cyber.mil/ncae-c>
 - Email:
caepmo_uwe@uwe.nsa.gov
- NCyTE Center

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