

Faculty Externship Experience



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Chair/Professor, Sinclair College

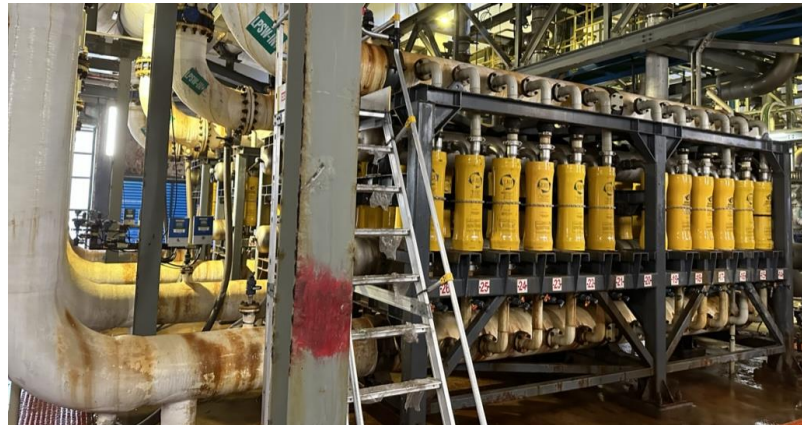
Co-PI NCyTE

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Professor, Sinclair College



Mission: The National Cybersecurity Training & Education (NCyTE) Center advances cybersecurity education in the U.S. by investing in technological innovation, resources, professional development and tools to support faculty, community colleges, and the workforce pipeline of tomorrow.



Tel-Aviv

Purpose

The logo for the NCYTE Center. The word "NCYTE" is in a large, bold, black, sans-serif font. The letter "Y" is highlighted in red. Below "NCYTE" is the word "CENTER" in a smaller, black, sans-serif font. The entire logo is contained within a white rectangular box with a thin grey border. There is a grey rectangular shadow or highlight below the box.

NCYTE
CENTER

- To give faculty the opportunity to participate in an immersive real-world setting where they can gain current knowledge of cybersecurity techniques, tools, skills, and knowledge of the workplace.
- Incorporate this knowledge into the classroom to better prepare students for today's industry needs.

Disciplines that Support Cyber



Technical Knowledge

- How computer systems work (programming, operating systems, etc.)
- How computer systems connect & communicate (networking)

• People Knowledge

- What motivates people?
- How do people think/act?
- How do we impact human behavior?
- Adversarial Thinking, Sociology, Psychology

• Business Knowledge

- How do organizations function?
- How do organizations evaluate and manage risk?

40+ Faculty Participants

- Cincinnati State Technical & Community College
- Florida Agricultural & Mechanical University
- University of North Carolina Wilmington
- Forsyth Technical Community College
- Enterprise State Community College
- Moraine Valley Community College
- University of Hawaii Maui College
- Milwaukee School of Engineering
- Laurel Ridge Community College
- Colegio San Ignacio de Loyola
- San Bernadino Valley College
- Northeast Lakeview College
- Sinclair Community College
- Lewis and Clark College
- Columbia Basin College
- San Antonio College
- South Texas College
- College of DuPage
- Madison College
- Highline College
- Merritt College

16 U.S. States + Puerto Rico



Externship Employer Example

- Military Contractors
- Local municipalities
- Manage service providers
- Airport
- IoT Supply Chain developers
- MEPS
- University and College Network Systems

Project Requirements

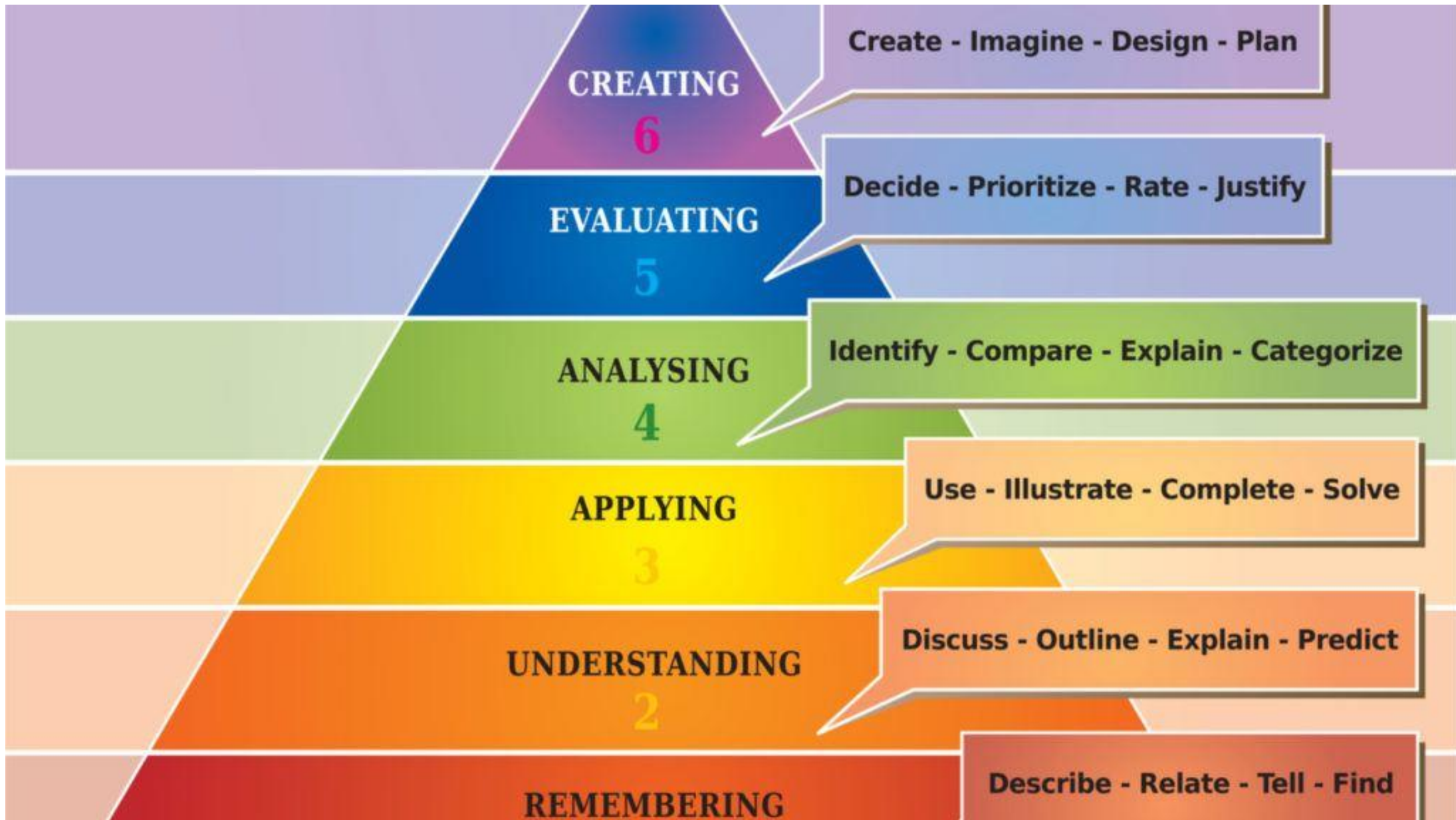


- 80 Hour Minimum Participation
- Create Externship Comprehensive Report
- Share Externship Experience with Colleagues and students

Project Outcomes



- Recommendation of new processes, procedures, or curricula to be implemented.



Spiraling Curriculum

- Refers to a curriculum design in which key concepts are presented repeatedly throughout the curriculum but with deepening layers of complexity or in different applications.



Faculty Externship Examples

NIST Search NIST   Menu

MANUFACTURING EXTENSION PARTNERSHIP (MEP)

MEP is a public-private partnership with Centers in all 50 states and Puerto Rico dedicated to serving small and medium-sized manufacturers. Last year, MEP Centers interacted with more than 33,500 manufacturers, leading to \$18.8 billion in sales, \$2.5 billion in cost savings, \$6.4 billion in new client investments, and helped create or retain more than 116,700 jobs.



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- CYBERSECURITY RESOURCES FOR MANUFACTURERS +
- MATTR
- MATTR+
- MANUFACTURING INFOGRAPHICS +





The Go-To Experts for Advancing U.S. Manufacturing





Paul Weingartner, Cincinnati State Technical and Community College

What were your initial expectations and learning goals for the externship, and how did they align with the outcomes you experienced?

- I expected to be involved in cybersecurity projects at TechSolve. A key goal was to increase my proficiency and understanding of different GRC projects. I have a reasonable understanding of CMMC and NIST frameworks, but have not had the opportunity to work through the process of working with those in industry to apply them.



Cybersecurity Across Disciplines

CyAD Conference: Cybersecurity Across Disciplines

Stay tuned for 2025 dates!

We'll update this page as more conference information becomes available.

Moraine Valley Community College

9000 College Pkwy, Palos Hills, IL 60465

On behalf of the entire team at the National Cybersecurity Training & Education Center, the planning committees, and our conference host institution, Moraine Valley Community College, we would like to thank our community for their support and attendance at the second annual CyAD: Cybersecurity Across Disciplines conference.

We had two days packed with engaging presentations about the current cyber threat landscape and the latest advances in cybersecurity workforce education and curriculum design, including demonstrations of innovative resources and tools that enhance cybersecurity practices across the various disciplines.



MEMBERSHIP INFORMATION

Membership Applications

NCyTE Member Map

Monthly Membership Meetings

MEMBERSHIP » Membership Information »

Membership Applications

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Educational Membership Application (Colleges & Universities)

* Name of Institution

* Institution Website