





OCCoE was created to enhance Oregon's cybersecurity posture statewide.

This presentation provides:

- A brief overview of OCCoE
- A summary of progress made during the first biennium (2023–2025)
- A preview of plans for the second biennium (2025–2027)

Why it matters to you:

- OCCoE's activities directly or indirectly impact your organization
- There are many opportunities for you to engage,
 collaborate, and benefit



A Brief Overview of OCCoE



- OCCoE was established in Fall 2023 through the passage of HB2049.
- OCCoE's mandate includes coordinating, funding, and providing:
 - Workforce development, goods and services, advising, outreach, awareness, research, information sharing, assessment, and industry partnerships — all related to cybersecurity.
- Workforce development has been a central focus.
- Strong partnerships with high schools and industry are essential.
- OCCoE is co-present and co-led by PSU, OSU, and UO.
 - o Each university brings a complementary set of strengths and capabilities.
- Our Advisory Council includes representatives from local and regional governments, special districts, and other key stakeholders.



Key Activities: 1st Biennium (2023–2025)

Program Development

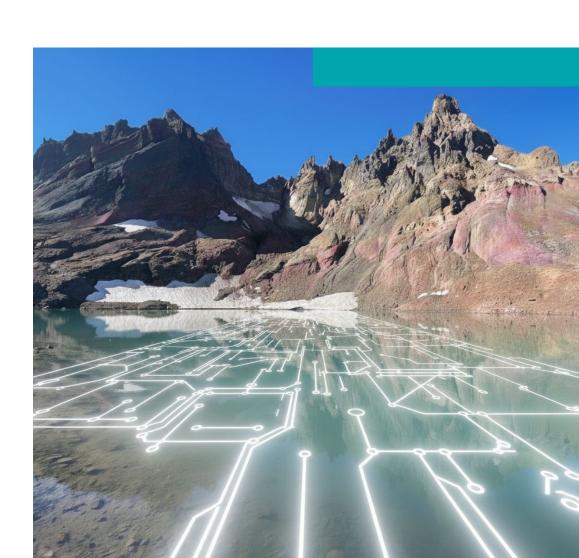
- Bachelor's Degree in Cybersecurity (UO)
- Cybersecurity Concentration (OSU)
- Non-credit Certificate in Building Cyber Resilience (PSU)

Security Operations Centers (SOCs)

- ORTSOC @ OSU
- TSOC @ UO (starting operation in Fall 2025)

Research

 e.g. Developing Al-based technique to detect DDoS attack at scale (UO)





Key Activities: 1st Biennium (2023–2025)

Outreach

- NW Summer Cyber Camp for high school students
- Training the Trainers:
 - Workshop for high school teachers to deliver a cybersecurity curriculum (NICE/UO)
 - Workshop for middle school teachers (OSU)
- High school visits to promote cybersecurity education (NICE/UO)
- Campus tours to foster a sense of belonging (NICE/UO)
- Cybersecurity resilience initiatives for tribal communities (HECC/PSU)

Industry Partnerships

- UO joined (OSU is joining) Fortinet's Academic Partner Program
- PSU partnered with Cisco to offer training to tribal communities

Visit *OCCoE.org* to explore impact map for some of these activities.







Workforce Development Programs

- MS in Cybersecurity (UO, OSU) and Graduate Certificate (UO)
 - Co-op placements in MS programs and internships in BS programs (UO)
- Exploring interdisciplinary dimensions of cybersecurity (UO)
 - e.g., Law, Public Policy, Business, Psychology
- Expanding the non-credit certificate to serve Oregon's nine tribal communities (PSU)

SOC Expansion

- Scaling ORTSOC and TSOC capacity and services
- Developing a "Living Lab" for Al-driven analytics at TSOC (Al-SOC) (UO)





Cybersecurity Assessment

- Cyber Risk Clinic: Assessing cybersecurity risk for 100+ water districts in Oregon (UO, SLCGP-funded)
- Risk assessments for 100+ special districts (OSU)

Awareness Training

• For executives (UO), senior citizens (OSU), and other groups

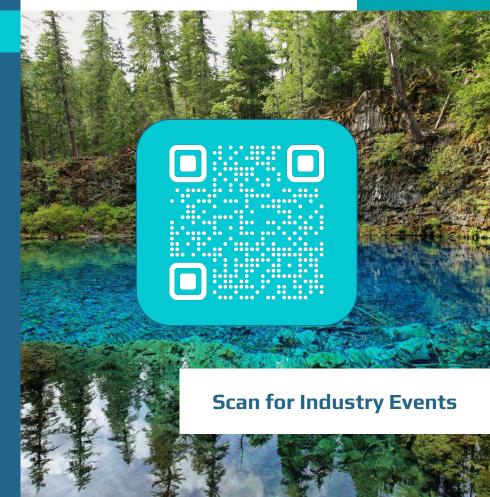
Outreach (NICE/UO)

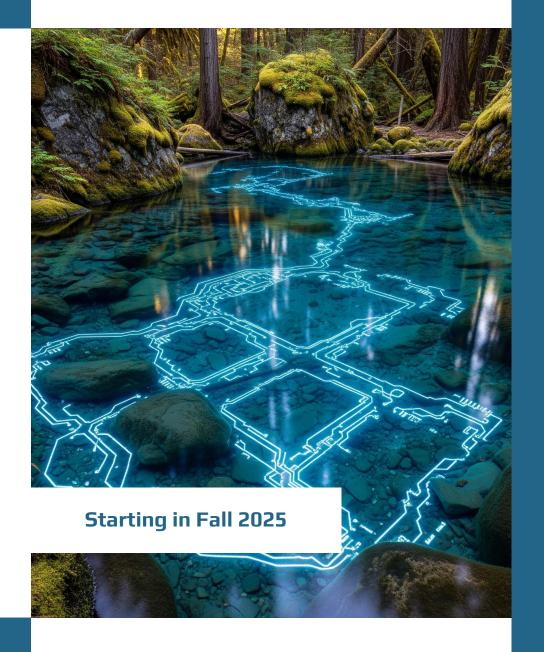
- Cybersecurity training workshops for high school teachers
- Cyber range exercises for high school students
- Cybersecurity competition for high school students
- Coordinating educational pathways with community colleges



Industry Partners Network (IPN) – UO

- UO is building a network of industry partners for our cybersecurity (and other)
 programs
- Areas of partnership with industry include
 - Hosting curriculum-integrated co-ops and interns
 - Supporting/enhancing experiential learning elements
 - Mentoring UO or high school students
 - capstone projects, cybersecurity clubs, competitions
 - Collaborating on research and development projects
- Co-op and internship programs provide a low-cost, low-risk opportunity to build a local talent pipeline for your organization

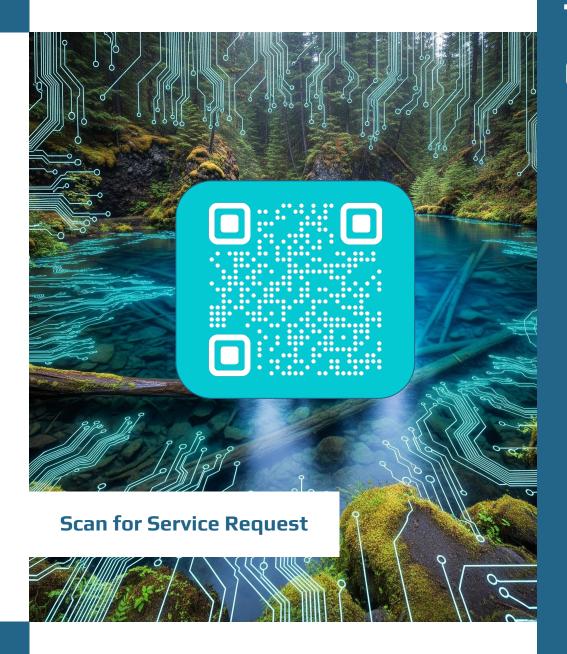




TSOC (Teaching Security Operations Center)



- Fully operational SOC serving state agencies and nonprofits at no cost.
- It is managed by dedicated engineers and provides hands-on training to cybersecurity students.
- TSOC offers monitoring, analysis, containment, eradication and recovery actions, reporting on the incident's nature, response actions and recommendations for improvement.
- TSOC leverages XDR services from major cybersecurity vendors, combined with open-source tools. This service model:
 - Minimizes maintenance overhead
 - Ensures access to cutting-edge tools and capabilities
 - Enables agility, scalability, and remote delivery



TSOC (Teaching Security Operations Center)



- Core Services
 - Log & Network Monitoring
 - Incident Response
 - Vulnerability Management
 - Attack Surface Management
 - Threat Intelligence
- A "Living Lab" is being developed to enable Al-driven analytics (Al-SOC).
- More information at TSOC.uoregon.edu
- We are currently recruiting clients for TSOC
 - Interested client should complete the service request form

