Oregon Center for Cyber Excellence

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"The cyber attack against Sony Pictures Entertainment was not just an attack against a company and its employees. It was also an attack on our freedom of expression and way of life."

Secretary Jeh Johnson, DHS

Current and Trending Cyber Risks

- The Internet of Things (IoT)
  - Data Protection during Transfer and Storage
  - Data Privacy – Big Data
- Ransomware
- Cyber Espionage/Terrorism
- Power Grid – SCADA
- Consumer Fraud/Identity Theft
- Medical Identity Theft

THE OCOE PROVIDES:

- Support for Small Business
- Response POTUS' call to increase National Security
- Oregon Jobs!

OCOE as an Extension Service

- Cyber-extension includes the application of scientific research and new knowledge to cyber-security and cyber-awareness practices through end-user education.

- Graduates prepared with high-demand cyber skills,

- Expanded research to anticipate, prevent and monitor cyber risk,

- Partnerships with local workforce investment boards and community colleges to keep the workforce cyber-current,

- Partnerships with our industry associations and regional economic development organizations to help ensure small and medium size enterprises have information and access to needed resources,

- Trusted expertise for businesses and agencies when cyber threats are present.

Summary of HB2996

Establishes the Oregon Center of Cyber Excellence

- Provides funding to create and establish the center as part of the Department of Consumer and Business Services.
- Requires the Governor to approve a BOD which includes members from Higher Education, Justice and Law Enforcement.

Function of the center is defined as:

(a) Providing services and expertise to Oregon businesses and government agencies to assist with the planning, preparation, management or assessment of or the response to cyber issues;

(b) Coordinating cyber-security education among post-secondary institutions of education in Oregon in order to create meaningful cyber-educational standards;

(c) Developing cyber-competitions and other programs to build practical workforce skills necessary to address cyber-management and cyber-security threats;

(d) Sharing cyber-expertise and disseminating best practices for cyber-education and cyber-safety;

(e) Facilitating cyber-security research; and

(f) Encouraging industry investment and partnership with post-secondary institutions of education and other career readiness programs.

Why Create a Center of Excellence?

➢ **Oregon needs to continue to improve its Cyber-education offerings:** *local employers want practical solutions to improving cyber-expertise and better access to updated information and research*

➢ **Oregon needs a solution that will work here:** *Oregon doesn't have a base of Federal Cyber-jobs, it does have Cyber-dependent Industries throughout the State. A new approach is needed to ensure the training and education needs of Oregon and the greater Northwest are met.*

➢ **Oregon needs to expand targeted Cyber-education for non-technical disciplines**. *The need for a strong education in Cyber-security extends beyond "technical disciplines": to be successful, this must include a robust program involving our Community Colleges*

Benefits of an Oregon COE

➢ **Extension Center The Center will coordinate Cyber-security education, share cyber-expertise and disseminate best practices; and facilitate Cyber-security research:** *a single center makes it easier and more efficient for Industry to partner with and invest in all Oregon schools including community colleges, trade schools, universities, and other career readiness programs*.

➢ **The traditional NSA/DHS Cyber-education standards aren't the right investment for Oregon schools if regional employers don't use it:** *the Center will help Oregon colleges and universities be more responsive to Oregon and Northwest employer needs by validating educational requirements and helping to create meaningful educational standards.*

Benefits of an Oregon COE

➢ **The Center will sponsor and run cyber competitions and other innovative educational programs to teach critical thinking skills as well as provide hands-on learning environments building practical skills to address emerging cyber-security threats:** *the center will work with secondary education to inspire students to degrees in science, technology and engineering.*

➢ **The Center will explore the opportunities to define specific areas of research and identify other COE where additional synergy can be leveraged:** *Silicon Security offers a unique area for Oregon to demonstrate academia and industry working together to enhance commercialization and job growth.*

CYBER RISK REPRESENTS A DRAMATIC, IMMEDIATE AND RAPIDLY EVOLVING DANGER!

Questions?

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