VICEROY NORTHWEST INSTITUTE FOR CYBERSECURITY EDUCATION AND RESEARCH

CySER Virtual Seminar

Jess Smith
Pacific Northwest National Laboratory
Building Trust in an Untrustworthy World
Oct. 22, 2024, 12:10 – 1 PM Pacific

Team Link: **Click here to join the meeting**
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Abstract:

As the builders and operators of critical systems, we are required to do the impossible – build systems that we can fully trust from devices and components that cannot be trusted. Often, we don't have the overarching viewpoint necessary to even identify all the problems that may exist across lifecycles and supply chains, much less reduce or mitigate those problems. Even if we have good visibility, there is no single modification that will "fix" the problem. This presentation will explore ways to understand the cyber supply chain, methods for evaluating the integrity of those systems, and a discussion of how we as cyber professionals can begin to mitigate the risks.

Bio:

Dr. Jess Smith is a Senior Cyber Security Research Scientist with experience working across both government and industry. At PNNL, Jess's research focuses include industrial control system and cyber supply chain risk management, and she has led research projects in everything from exploring state machine reverse engineering to defining resilience mathematically in cyber systems. She is currently leading PNNL's supply chain integrity efforts which support multiple government agencies. Prior to PNNL, Jess worked in industry at Schweitzer Engineering Laboratories, MITRE, and interned at NASA. After completing both a MS and BS in Computer Engineering at the University of Idaho, Jess earned her PhD in Computer Science from Washington State University. She has her CISSP and CSSLP certifications and is a member of IEEE.

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