Cyber Security Science and Research at PNNL

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**Abstract**

The "Pacific Northwest National Laboratory: Cyber Security Research" presentation introduces the DOE national lab, PNNL, and provides an overview of its mission. It then introduces the cyber security science research portfolio covering cyber analytics, component security, control system security, asymmetric resilient cyber security, and cyber security science. Finally, the research and development life cycle is introduced and several PNNL projects including cyber security science foundations, testbeds, and technology commercializations are explored in greater detail.

**Bio**

Dr. David Manz is a Senior Cyber Security Research Scientist at the Pacific Northwest National Laboratory in Richland, WA. Manz’s work at PNNL focuses on research projects for control systems and information assurance, including projects on testbeds, foundations of cyber security science, resilient and secure critical infrastructures. He holds a B.S. in Computer Information Science from the Robert D. Clark Honors College at the University of Oregon and a M.S. & Ph.D. in Computer Science from the University of Idaho.