Nuclear Energy

Cyber Security R&D (NE-1)

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NE Cyber Security R&D

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Objectives:

- To strength security through reduction of vulnerabilities
- To mitigate the consequences of threats
- To lower the costs of protection and compliance
- To provide a collaborative pathway for industry and researchers

Fields of Interest:

- Risk Management Architectures and Supply Chain
- Modeling & Simulation
- Information Sharing/Training/Education



NEUP Proposal Interest - R&D Needs

Nuclear Energy

- Research of most interest will addresses characteristics and behaviors of components within embedded instrumentation and control (I&C) systems that are used within the nuclear enterprise.
- Models shall capture the behavior of an I&C system, to
 - 1) simulate characteristics of an I&C system under cyber attack;
 - 2) study the cyber risk impacts of upgrades and maintenance on such systems;
 - 3) enable future nuclear energy cyber security research, and
 - 4) facilitate nuclear facility operation education and training.



Contact Information

- For NEUP, interested parties may contact the INL cyber security program manager at steven.hartenstein@inl.gov
- Interested parties may contact me as well at trevor.cook@nuclear.energy.gov