

Recruiting Ph.D. and M.S. Students in Cyber-Physical System Security

Cyber-Physical Systems (CPS) play an increasingly important role in critical infrastructure, government and everyday life. Automobiles, medical devices, building controls and the smart grid are examples of CPS. Each includes smart networked systems with embedded sensors, processors and actuators that sense and interact with the physical world and support real-time, guaranteed performance in safety critical applications.

At the same time, CPS systems also increase cybersecurity risks and attack surfaces. The consequences of unintentional faults or malicious attacks could have severe impact on human lives and the environment. The area of Cyber-Physical Security (CPS-SEC) addresses the security and privacy challenges of CPS.

Students with cyber-physical security training are in high demand and will be able to obtain the jobs related to cybersecurity, cyber-physical systems, and more. Students will conduct research under the supervision of Dr. Yan Lindsay Sun, and work closely with Dr. Haibo He and other students in related projects. The research assistantship pays for tuition, stipend and health insurance.

Requirements include:

- B.S. or M.S. degree in computer engineering, electrical engineering, computer science or closely related areas.
- Strong interest in cybersecurity, cyber physical systems, algorithms, machine learning, and/or signal processing.
- Previous research experiences in power grid security is preferred, but not required.

To apply, please contact Prof. Sun at yansun@uri.edu