Summer Research Program Intern: Summer Cyber Decision Systems Intern

Date: Sep 11, 2017
Location: MA, US

The U.S. Government faces serious threats from sophisticated cyber adversaries who seek to access, compromise, and disrupt systems and the missions they support. The Cyber Analytics and Decision Systems Group strives to improve the security of these government systems through the development and deployment of innovative cyber security solutions that rely on the application of sound scientific and engineering principles and methodologies. We develop threat models, measures, and metrics for security; novel analytics for discovery and characterization of cyber actors; and scalable human-assistive cyber decision support tools, placing strong emphasis on realistic data and rigorous experimental evaluation of techniques. Projects are carried out by small, focused, cooperative teams that succeed together by participating in all phases of technical solution development, including problem analysis, innovative solution design, system architecture, solution prototyping and field-testing, and final technology transfer to DoD and intelligence community sponsors or industry.

The Cyber Analytics and Decision Systems Group seeks a research intern to assist in applying software development, machine learning, and/or data analysis techniques to solving research problems in cyber security. Project areas include enhancing network and host threat detection, prediction and characterization capabilities with an emphasis on network science representations, analysis of systems to identify areas for security improvements and design & implementation of cyber improvements in key government systems.

Requirements:
Candidates should be working towards a B.S. or B.A. in computer science, computer security, computer engineering, applied mathematics, physics, electrical engineering, or related disciplines. Knowledge and experience with any of the following is desired: statistical modeling, machine learning, optimization, artificial intelligence, game theory, simulation, computer networks, software development and engineering, network security, and system architectures. A background in cyber security is preferred, but not necessary.

MIT Lincoln Laboratory is an Equal Employment Opportunity (EEO) employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, veteran status, disability status, or genetic information; U.S. citizenship is required.