This Summer Research Experiences for Undergraduates (REU) site, funded by NSF Division of Computer and Network Systems, focuses on cybersecurity challenges in future cyber-physical systems (CPS) including smart and safe cities, self-driving cars, industrial internet of things (IIoT), and smart power grid.

**Project Objectives**
- Opportunities to conduct cybersecurity-related research and gain valuable experience in topics of national interest.
- Allow interns to self-assess their interest in cybersecurity and graduate studies.
- Learn advance subjects such as blockchain for securing CPS, hardware and software attacks on IIoT, security in deep learning.

**Topic Areas**
- Securing CPSs using Revolutionary Blockchain Technology
- Secure Communication Schemes for Smart Power Grid
- Hardware Intrinsic Security Threats in IoTs
- Security Vulnerabilities in Deep Learning Deployment to edge devices in CPSs
- Anomaly Detection using Graph streams to Protect Cyber Networks
- Formal Security Analysis for IIoT Systems
- Secure Industrial Control Systems (ICSs)

**Eligibility**
- U.S. citizen or permanent resident
- Electrical engineering, computer/software engineering, computer science or any other related disciplines with a 3.25 or higher GPA
- Sophomore, junior or senior
- Must graduate after September 2019

**Application Process**
- Transcripts
- Application form
- Two recommendation letters
- Personal statement
- Resume
- See website for more details

**Applications Available Online**
[http://www.cae.tntech.edu/~mmahmoud/REU/Application.htm](http://www.cae.tntech.edu/~mmahmoud/REU/Application.htm)

All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities.

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**Announcement of Awards**
April 1, 2019

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