Research Experience for Undergraduates

Summer Research Internship
Security of Mobile Devices
and Wireless Networks
at NYIT Manhattan Campus
May 31st - August 5th, 2016

The NYIT REU Site at NYIT will provide opportunities for 10 motivated and talented undergraduate students (women and minority students are strongly encouraged to apply), to collaborate with NYIT faculty and graduate students in research on methods of securing mobile devices and their networks using both hardware and software approaches.

Undergraduates will gain hands-on research experiences in simulating the spread of malware on smartphones, implementing cryptographic algorithms and authentication schemes for smartphones, studying topology control of wireless networks, geolocating smartphones, detecting physical attack on a network of smartphones, and developing privacy-protected medical sensing methods using smartphones—all while spending the summer in the heart of New York City!

Benefits
- $5,000 Stipend
- Housing and Travel Allowance
- Graduate School Preparation
- Visits to state-of-the-art labs, security centers, attend security conferences, meet and network with security professionals, weekend outings in NYC

Projects
- Wireless Network Topology Control
- Medical Data Collection Privacy
- Cryptography
- User Authentication
- Physical Capture Attack
- Smartphone Geolocation
- Smartphone Botnet

Qualifications
- US Citizen or Permanent Resident
- Junior or above in ECE, CS or related field
- GPA of 3.2 or above
- Knowledgeable in C++, Java, or Matlab

Application Deadline
February 29, 2016