Research Experience for Undergraduates

Summer Research Internship
Security of Mobile Devices and Wireless Networks
at NYIT Manhattan Campus
May 26th - July 30th 2015

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
- $600 Travel Allowance; $2,800 Housing 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 27, 2015

NYIT REU Program
1855 Broadway
New York, NY 10023-7692
Email: nyitreu@gmail.com

http://www.nyit.edu/reu/