

NSF CI TRAINING

How to apply: <https://bit.ly/dsecure2019WS>

2019-20 Workshops

09/13/19: Unraveling Cybercrime Using Supercomputer – Introduction to High-Performance Computing (HPC)

10/04/19: HPC-based Secret Computing Using Homomorphic Encryption

10/25/19: Get it Done Fast! Parallel Programming with OpenMP and MPI

01/24/20: Spark: Leveraging Big Data for Cybersecurity

02/07/20: Machine Learning for Radio Frequency Signal Intelligence

02/21/20: Deep Learning for Security -- Wireless Attacks in the Making!

Hackshop: 09/20/19, 10/18/19, 11/08/19, 01/31/20, 02/14/20, 02/28/20

Competition: 11/16/19 and 03/06/20

Who can participate

The CI workshops are free and open to all students. Seats are limited. To apply, please click on the link above.

Who will teach

The workshops will be taught jointly by cybersecurity and HPC experts, with an emphasis on the practical use of advanced CI techniques and tools in the context of cybersecurity research.



As the volume and sophistication of cyber-attacks grow, cybersecurity researchers, engineers and practitioners heavily rely on advanced cyberinfrastructure (CI) techniques such as big data, machine learning, and parallel programming, as well as advanced CI platforms, e.g., cloud and high-performance computing to assess cyber risks, identify and mitigate threats, and achieve defense in depth. However, CI techniques have not been widely introduced in undergraduate and graduate cybersecurity curricula. This workshop series introduces a unique Data-Enabled Advanced Training Program for Cyber Security Research and Education (DeapSECURE), aimed to prepare undergraduate and graduate students with advanced CI techniques and teach them to use CI resources, tools, and services to succeed in cutting-edge cybersecurity research and industrial cybersecurity projects. Attendees of 5 or more workshops will be awarded Certificate of Completion.

