

What We Do

With its high concentrations of population, manufacturing, petroleum, transportation and as an economic center, Houston is a prime target for cyber and other attacks. The Cyber Security Institute provides research and education services to strengthen the region's efforts to secure cyberspace and information systems. Many organizations, including governmental agencies and private companies, are not prepared to counter potential cyber attacks. With its research and advisory seminars, the Cyber Security Institute strives to educate the community to bolster its security posture against cyber attacks.

CSI Missions includes:

- Establish mutually beneficial projects that help to improve cyber security
- Promote cyber security related research and education activities in the greater Houston area
- Serve as a focal point of collaborations between academia, federal agencies, and local governmental and business organizations in the greater Houston area.

Contact the CSI

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Visit us on the web at uhcl.edu/sce/csi

CSI Personnel

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Brian Sudduth	Lab Dev/Instructor
Ravi Badana	Research Assistant
Terri Culbert	Senior Secretary
Kevin Kirkhoff	Camp Coordinator
Kathy Rogers	Public Outreach

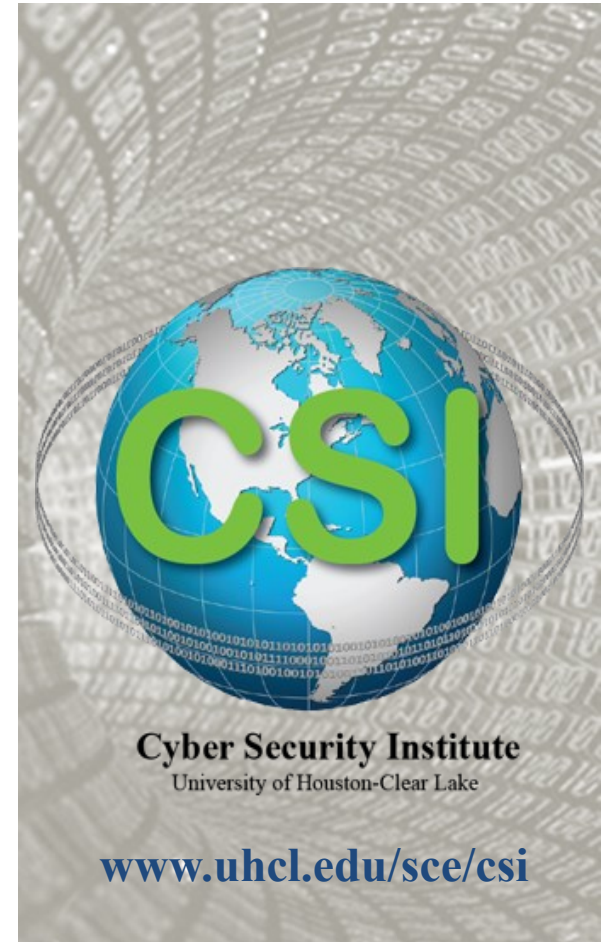
CSI Partners and Sponsors

Bay Area Houston Economic Partnership
NASA's Johnson Space Center
Nivola Healthcare Solutions
CYFOR Technologies
BayTech



CYBER SECURITY INSTITUTE

UNIVERSITY OF HOUSTON-
CLEAR LAKE



Facebook: [UHCL Cyber Security Institute](#)

LinkedIn Group: [UHCL-Cyber-Security-Institute-CSI-6563184](#)

What We Offer

Industry Advisory Seminars

The Cyber Security Institute offers workshops that benefit small business owners, managers, local government employees, teachers and school administrators by providing knowledge about cyber threats. The CSI shares current threat assessments, methods used by hackers, techniques to secure your resources, how to thwart cyber attacks, and available mitigation methods and tools.

Past workshops have included:

- How to Tackle Cyber Attacks
- Cyber Security Architectures and Frameworks
- Cyber Security and Health Care
- Digital Forensics and Incident Responses



Cyber Security Minor Degree Program

The faculty of the School of Science and Computer Engineering at UHCL have research experience in diversified areas including computer security, networking, wireless sensor networks, and web technology. The faculty's expertise provides an excellent curriculum for the new minor degree program in Cybersecurity. The program is designed to attract students interested in a career as a cyber security professional. Organizations will benefit from graduates of the program hired as part of their IT staff to secure their information systems.

Cyber Security Summer Camp June 8th, 9th, and 10th of 2015

The Cyber Security Institute's summer camp program draws students from nearby high schools and is designed to raise awareness of cyber threats and to cultivate the next-generation of cyber "warriors". With support from local area businesses and law enforcement, the camp's guest speakers bring experience from the frontlines of the cyber war against malicious intent. In addition to disseminating knowledge about potential cyber threats,

- Students learn about network security, common threats, and ways to mitigate those threats.
- Students receive hands-on experience with network tools and networking hardware.
- Students gain experience as they survey the network and identify systems on the network.
- Participants witness demonstrations of attack scenarios and learn to configure devices to mitigate those threats.

Network Management and Security Certification Program

Classes are enrolling now

The Network Management & Security certificate is composed of a series of four classes. Each class prepares the student for passing an industry-recognized and demanded certification exam. The phased approach covers a single topic group in each class. The certification program is designed for students, with some computer and networking background, seeking to enter cyber security or network engineering.

Visit the [CSI website](http://www.uhcl.edu/sce/csi/nms) for current class schedules

www.uhcl.edu/sce/csi/nms

Course	Industry Certifications	Prerequisite
NMS-1: Fundamentals of Information Security	(ISC) ² Systems Security Certified Practitioner (SSCP) or CompTIA Security+	none
NMS-2: Introduction to Network Technology	Cisco Certified Network Technician (CCENT) or CompTIA Network+	none
NMS-3: Network Routing and Switching	Cisco Certified Network Associate (CCNA)	CCENT
NMS-4: Network Security	Cisco Certified Network Associate: Security (CCNA:Security)	CCNA

Cyber Security Virtualization Research Environment for Advanced Testing

The Cyber Security Institute uses a virtualized testing environment based on OpenStack. The OpenStack environment is used by Amazon, PayPal, Comcast, Yahoo and many others to provide private and public cloud-based services. The virtualization platform allows the CSI's researchers to:

- Analyze cyber security issues within virtualized environments.
- Study networking technologies as implemented in a Software Defined Network (SDN).
- Test cyber security related methods and products before being introduced into a production network.
- Perform vulnerability analysis using penetration testing and intrusion detection techniques.