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HOW CAN WE
COMBAT A SHIFTING
CYBER THREAT?

APPROACH IT FROM
ALL ANGLES.

INDIANA UNIVERSITY
CYBERSECURITY

AREAS OF LEADERSHIP

ACADEMIC PROGRAMS

JOIN THE NEXT GENERATION OF SECURITY PROFESSIONALS

LUDDY SCHOOL OF INFORMATICS, COMPUTING, AND ENGINEERING

B.S. in informatics (security informatics specialization)
B.S. in computer science
Minor in security informatics
Graduate certificate in cybersecurity
M.S. in secure computing
Ph.D. in computer science (minor in security informatics)
Ph.D. in informatics (security informatics track)

KELLEY SCHOOL OF BUSINESS

Digital badge program
Cybersecurity management certificate
B.S. in business—information systems major (information management track)
B.S. in business—operations management major
B.S. in business—supply chain management major
M.S. in information systems (enterprise security and risk management track)

MAURER SCHOOL OF LAW

J.D./M.S. in cybersecurity risk management (cybersecurity law and policy certificate)
J.D. (information privacy law and policy certificate)
J.D. (cybersecurity law and policy certificate)

INTERDISCIPLINARY DEGREES

B.S. in cybersecurity and global policy
M.S. in cybersecurity risk management

CYBERSECURITY RESEARCH
EXPLORE CYBERSECURITY'S TOMORROWS

LUDDY SCHOOL OF INFORMATICS, COMPUTING, AND ENGINEERING

The school explores technology's role in society to help design better systems that balance security, privacy, and usability.

SPICE

Security and Privacy in Informatics, Computing, and Engineering (SPICE) studies and supports the design, evaluation, and implementation of technologies that enable control over information.

OSTROM WORKSHOP

The Ostrom Workshop's program on cybersecurity and internet governance brings together scholars from IU and beyond to build networks and partnerships to translate research findings into effective policy.

BIG RED 200

Big Red 200, an HPE Cray Shasta supercomputer, supports AI and cybersecurity research.

OPERATIONAL SERVICES
SECURITY FOR HIGHER EDUCATION, THE STATE, AND THE NATION

GLOBALNOC

Undergirding IU's cybersecurity expertise is the state-of-the-art, 24/7 network monitoring and support of IU's Global Network Operations Center. Led by IU, GlobalNOC provides operations, tools, and network expertise with a singular focus on serving the unique requirements of the research and education community.

OMNISOC

IU's OmniSOC is a shared cybersecurity operations center for higher education. Founded by several members of the Big Ten Academic Alliance and located at IU, OmniSOC helps members reduce the time from first detection of a security threat to campus mitigation. OmniSOC uses collective monitoring and shared information among members and threat intelligence insights from REN-ISAC.

REN-ISAC

Research and higher education face distinct security threats, but often have limited resources. The Research and Education Networks Information Sharing and Analysis Center (REN-ISAC) at IU addresses this need through information-sharing relationships, providing timely analysis of possible threats, and best practices for dealing with them.

CACR

Properly balancing public needs, homeland security, and individual privacy rights is critical to advancing cybersecurity. The Center for Applied Cybersecurity Research (CACR) interweaves technical and policy expertise—based on broad scholarly research and extensive practical experience—to advance cybersecurity practice, interdisciplinary research, and understanding.

TRUSTED CI

Trusted CI, the NSF Cybersecurity Center of Excellence based at IU, provides practical guidance and leadership—all in the context of scientific research. CACR leads the multi-organizational center in partnership with the National Center for Supercomputing Applications, the Pittsburgh Supercomputing Center, the University of Wisconsin-Madison, Internet2, and the U.S. Department of Energy's Lawrence Berkeley National Laboratory (Berkeley Lab).

RESEARCHSOC

Research Security Operations Center (ResearchSOC) builds on the OmniSOC and CACR to make scientific computing resilient to cyberattacks and capable of supporting trustworthy, productive research. ResearchSOC provides the operational cybersecurity services, training, and information sharing necessary to a community as unique and variable as research and education.

ResearchSOC is led by IU and partners with Duke University, the Pittsburgh Supercomputing Center, and the University of California, San Diego.

PROTECTION FOR GOVERNMENT AGENCIES
CYBER DEFENSES FOR LOCAL, STATE, AND NATIONAL ASSETS

IU CYBERSECURITY CLINIC

As cybersecurity threats become more sophisticated and pervasive, IU has established this new center to address threats faced by governments, businesses, and individuals. It will serve as a hub for cyber training in the Midwest and will be the only one of its kind focused on local and state organizations.

ELECTION SECURITY

IU's CACR partners with the State of Indiana to assist in developing election-specific incident response plans, training, and consulting.

PRINCIPLES-BASED ASSESSMENT FOR CYBERSECURITY TOOLKIT

The Principles-based Assessment for Cybersecurity Toolkit (PACT) is a tool for assessing the toughest cybersecurity problems. CACR chief policy analysts developed the tool in collaboration with Naval Surface Warfare Center, Crane Division. As a naval installation, Crane uses specialized technologies which require custom cybersecurity solutions.