

CERIAS

the center for education and research in information assurance and security

Purdue University's Center for Education and Research in Information Assurance and Security is widely recognized as the world's leading multi-disciplined academic research and educational institution focusing on information assurance, security, privacy and cyber crime. CERIAS is one of the National Science Foundation's "original seven" Centers of Excellence in Information Security Education. CERIAS is repeatedly recognized as the top U.S. academic research program for information security.

People

CERIAS brings together a team of world-class faculty, graduate student researchers and industry partners with the shared goal of advancing the state of cyber security through basic and applied research.

Faculty Researchers

More than 80 faculty, from 18 different academic departments spanning 5 of Purdue's colleges, are affiliated with the Center including:

- 11 Distinguished or Named professors
- 2 Fellows of the National Academy of Engineering
- 3 Members of the IEEE Computer Society Golden Core
- 12 Fellows of the IEEE
- 22 Fellows of noted Industry Associations and National Academies
- 2 Fulbright Scholars

Students

- More than 100 Masters and Doctoral students across Purdue's academic departments and interdisciplinary programs
- An active Post-Doctoral Researcher program
- More than 500 undergraduate students with an interest in information assurance, security and privacy

Research

In 1962 Purdue University established the first computer science department in the U.S. CERIAS traces its history back to 1992 with the establishment of the COAST Laboratory. Since 1998 CERIAS has initiated more than 200 information security projects that address real-world problems and produce tools, technologies and practices that make the world of computing more secure.

Mission Statement

The mission of CERIAS is to advance the knowledge and practice of information assurance and security through the performance of world-class research, the delivery of the highest quality education, and by serving as an unbiased source of information nationally, and internationally.

Vision Statement

The Purdue University Center for Education and Research in Information Assurance and Security (CERIAS) will be recognized as the preeminent interdisciplinary and multidisciplinary research and education center in information assurance and security.

Organizational Goals

- Empower faculty and research staff -- from diverse disciplines -- to address infosec problems, formulate research and education solutions, and advance the state of cybersecurity.
- Establish and advance the scientific rigor of the field.
- Discover, develop, and transfer technologies, methods, and information that enhance practice in the field.
- Establish CERIAS's prominence as a leader in the development and delivery of educational curriculum from K-12 to graduate programs and continuing education and training.
- Engage industry, government, and other academic institutions as awareness, education, and research partners.

CERIAS Primary Research Areas

- Risk Management, Policies and Laws
- Trusted Social and Human Interactions
- Security Awareness, Education and Training
- Assurable Software and Architectures
- Enclave and Network Security
- Incident Detection, Response and Investigation
- Identification, Authentication and Privacy
- Cryptology and Rights Management

CERIAS Affiliated Laboratories and Centers

- Biometrics Standards, Performance and Assurance Lab
- Center for Wireless Systems and Applications
- Cyber Forensics Lab
- Dependable & Secure Distributed Systems (DS²) Lab
- e-Enterprise Center
- Lab For Research in Emerging Network & Distributed Systems (FRIENDS)
- Network Algorithm & Analysis Lab (NAAL)
- Purdue Discovery Park
- Regenstrief Center for Healthcare Engineering
- Secure Software Systems (S³) Lab
- Visual Analytics for Command, Control and Interoperability Environments (VACCINE) Lab

CERIAS — The Center for Education and Research in Information Assurance and Security — is the world's largest and foremost multidisciplinary academic center addressing the issues of information security, assurance, privacy and cyber crime. CERIAS brings together a team of world-class faculty, graduate student researchers and industry partners with the shared goal of advancing the state and practice of cyber security through basic and applied research. CERIAS serves as an unbiased resource of information to the worldwide community and supports the goals and mission of Purdue University, a public, land-grant university.

www.cerias.purdue.edu

765.494.7806

