

CERIAS

The Center for Education and Research in Information Assurance and Security

INSuRE– Information Security Research and Education

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Background:

The goal of the 54 Centers of Academic Excellence-Research (CAE-R) is to increase our understanding of robust cybersecurity technology, policy, and practices that will enable our Nation to effectively prevent, detect, or respond to a catastrophic cyber event.

Time is of the essence in the area of cybersecurity, leading to the need for *less* internal competition, and *more* cooperation so that together we better secure cyberspace for America and Americans.

Current institutional situation:

Competitors, not co-operators, for

- Students
- Research grants
- Partnerships

Costs of competition

- Financially costly
- Produce redundancy
- Thwart innovation/repeat failures
- Produce slowness

Current Network

University of California, Davis



Purdue University

Projects:
Cloud Computing
Password Policy

National Security Agency

University of Maryland, Baltimore County

Projects:
SSL
Password Policy
Google Glass
Machine Assisted Software Analysis
Password Replacement with FIDO

Mississippi State University

Project:
Industrial Control Systems

What is the INSuRE Project?

The INSuRE project is an attempt to pilot and scale, and then again pilot and scale a **sustainable research network** that:

- 1) **connects** institution-level resources, University enterprise systems, and national research networks;
- 2) **enables** more rapid discovery and recommendation of researchers, expertise, and resources;
- 3) **supports development** of new collaborative science teams addressing new or existing research challenges;
- 4) **exposes** and **engages** graduate students in research activity of national priority at participating institutions;
- 5) **provides** development and sharing of tools that support research, and,
- 6) **facilitates evaluation** of research, scholarly activity, and resources, especially over time.