INSuRE: Information Security Research and Education

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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

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.

Purdue University
Projects:
Cloud Computing
Password Policy

National Security Agency

University of California, Davis

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

University of California, Davis