
Information Security Research and Education Network *INSuRE*



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Dr. Melissa Dark
Purdue University

Background

- NICE 2012 Report (http://csrc.nist.gov/nice/documents/nicestratplan/nice-strategic-plan_sep2012)
 - *Promote interest in Computer Science and Cybersecurity by increasing the Diversity and Quantity of Course offerings and Research Opportunities*
 - To achieve this objective the following 5 strategies are suggested in the NICE report.
 - Increase the quantity and diversity of computer science courses in high schools.
 - **Increase the quantity and diversity of** undergraduate and **graduate cybersecurity curricula.**
 - Champion cybersecurity competitions.
 - Advance excellence in cybersecurity research and development.
 - **Coordinate a learning network of virtual national cybersecurity laboratories.**
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Current State

- 54 Centers of Academic Excellence-Research (CAE-R) institutions in the United States.
 - Nodes of excellence, some interaction, but not a network.
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Proposed Work

- Develop and pilot an initial, geographically distributed coalition to test a research network.
 - Purdue University, UMBC, UC-Davis, Mississippi State University, NSA
 - The potential benefits for our “research network” approach include:
 - connecting institution-level resources, University enterprise systems, and national research networks.
 - enabling more rapid discovery and recommendation of researchers, expertise, and resources;
 - supporting the development of new collaborative science teams to address new or existing research challenges;
 - exposing and engaging graduate students in research activity at participating institutions;
 - providing for the development and sharing of tools that support research, and,
 - facilitating evaluation of research, scholarly activity, and resources, especially over time.
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Outcomes

- Enhance students' research ability by working on applied research problems in a collaborative, team-oriented research environment with mentorship and support from multiple universities.
 - Build and enhance additional capacity of educational institutions to offer research opportunities where students can bridge research theory to research practice through real world problem sets with real world application.
 - Extend the research output from CAE-Rs in the field of cybersecurity and contribute to the advancement of finding solutions to unclassified and classified research problems in the area of National Information Security.
 - Investigate the creation of a Cybersecurity Research Hub to connect these individual CAE-R institutions and agencies into a network using the HUBzero® Platform.
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Questions? Advice?

Melissa Dark
Purdue University
dark@purdue.edu
