NSF Program (either CC or CICI):

Program Area: CICI

Award Number:

1642124

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Project Title: CICI: Regional: New England Cybersecurity Operation and Research Center (CORE)
New England Cybersecurity Operation and Research Center (CORE)

• Collaboration between University of Massachusetts Lowell (UMass Lowell) and the Office of the President of University of Massachusetts (UMass)

• Partnership including
  – Under-resourced colleges and universities
  – Government and industry partners
  – Advanced Cyber Security Center (ACSC)
  – Boston Consortium for Higher Education

• Functionalities including
  – Cybersecurity education/certification
  – Security consulting/design reviews and assessments
  – Cybersecurity operations/managed security services
  – Cybersecurity research on emerging threats, trends and defense.
Under-resourced Colleges and Universities

- Bridgewater State University in Massachusetts (MA)
- Community College of Rhode Island in RI
- Lasell College at Newton in MA
- Bentley University in MA
- Rhode Island School of Design in RI
- And others …

- 9 in total now
- We plan to expand our services to many more institutes and companies.
Example Educations Activities

• Interns
  – One now working with DOD and has a Top Secret clearance.
  – Two others hired by top tier companies.
  – Diversity: Females and African Americans

• What they do - including
  – Provided customer with logs for a breach.
  – Warned the client of possible viruses.
  – Notified the entities about their user accounts bring locked out, disabled, sending malware, failing to authenticate and sending large amounts of suspicious data.
UMass Controls Factory

The Current Profile (Where are we now?)

The Engineering Work Center
- Assets, Identities, Governance
- Cyber Threats & Vulnerabilities
- NIST Cybersecurity Framework

The Technology Work Center
- Technical Security Controls
- Security Operations Center
- Testing & Assurance

The Business Work Center
- Business Security Controls
- Workforce Skills
- Cyber Risk Management

The Target Profile (Where do we want to be?)

Unmanaged Assets

Managed Assets