MISSISSIPPI STATE UNIVERSITY

The High Performance Computing Collaboratory hosts the 4th most powerful academic supercomputer.

Mississippi State University (MSU) has been a part of the NSA Center of Academic Excellence Program since 2001. Currently, MSU holds all three CAE designations for which Carnegie classified Doctoral Universities: Very High Research Activity may qualify. The MSU CAE effort is led by MSU's **Center for Cyber Innovation (CCI)**. CCI is part of the High Performance Computing Collaboratory at Mississippi State University. CCI develops cutting-edge solutions for Defense, Homeland Security, and the Intelligence Community. The primary focus of CCI is to research, prototype, and deliver cyber solutions that support global national security, homeland security, and peacekeeping operations.

CCI has been a pioneer in cyber defense research. Security architecture provides the blueprint for in-depth defense strategies. You cannot avoid cyber threats if you do not know how systems connect and what software those systems are running. Scalable, security architecture is a critical enabling technology required to model, defend, and wargame network-intensive cyber networks.

MSU supports one of the most robust cyber infrastructures of any university. CCI researchers have access to state-of-the-art high performance computing assets to include petabyte scale high-speed storage. CCI has the capability to scale up laboratory research into enterprise scale cyber demonstrations and to do so in NOFORN and other restricted environments.

Academically, MSU students pursuing the CAE-CO path complete our Master of Science in Cyber Security & Operations. There are multiple paths for students from Arts & Sciences, Business and Engineering to complete the Information Assurance Certificate that completes the CAE-CDE path.

DESIGNATIONS

- **CAE – Cyber Defense Education**
- **CAE – Cyber Defense Research**
- **CAE – Cyber Operations**

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MSU cybersecurity students pictured with the NSA-sponsored Shadow supercomputer at HPC2.