The Duke Energy Electrical Grid Research Innovation and Development center (eGRID) at Clemson can simulate the electrical grid of any country in the world to test how cities would manage cyberattacks to power infrastructure

Clemson University continues to develop research infrastructure, educational programs, and faculty expertise in alignment with national security interests in cybersecurity.

With a focus on power systems security and on securing cyber-physical systems, Clemson takes a broad, multidisciplinary approach to cybersecurity research with at least 15 faculty from eight departments and Clemson Computing and Information Technology (CCIT) contributing. Clemson offers unique research equipment and facilities for research related to autonomous vehicles and systems connectivity, electrical grid simulation, cloud computing, social media listening, high-speed computing, and big data analytics. Clemson works closely with federal agencies and the private sector to pursue research projects with real-world impact. In the past five years, Clemson has secured $27 million in grant awards for cybersecurity projects and Clemson faculty garnered more than 400 citations in 2017 alone for cybersecurity-related research.

Additionally, Clemson offers a broad range of cybersecurity courses at both the undergraduate and graduate levels, covering topics such as computer security principles, censorship, malware design, and penetration testing. Clemson aims to graduate more students to fill critical workforce needs in the cybersecurity sector and now offers a minor in cybersecurity for undergraduates with multiple paths for students in business, science, and engineering.

The mission of the new Clemson University Cybersecurity Center is to propel Clemson University as a leader in the field of cybersecurity in all aspects, including research, education, industry partnership, and community engagement.
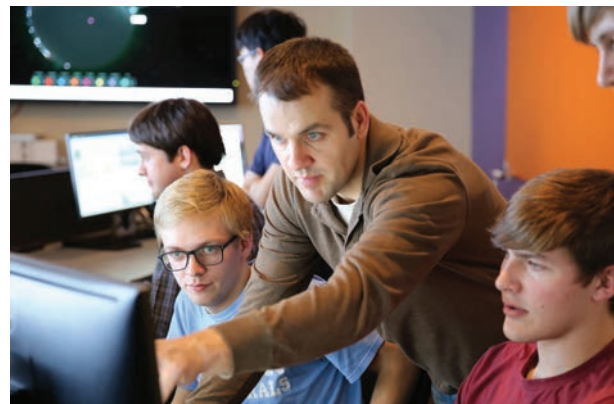
DESIGNATIONS

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

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clemson.edu/centers-institutes/cybersecurity

The Clemson Cybersecurity Operations Center trains students to monitor activity on Clemson's network, perform forensic investigations on past events, and create predictive analyses