



Burruss Hall at Virginia Tech

Virginia Tech is leading the nation in national security and education. In 2021, the university established the Virginia Tech National Security Institute (VTNSI), building off the long-standing success of the Ted and Karyn Hume Center for National Security and Technology and centralizing all national security related research at Virginia Tech.

The Hume Center leads VTNSI's education programs focused on cybersecurity, autonomy, and resilience for the national security community. Educational programs provide mentorship, internships, scholarships, and seek to address key challenges in qualified U.S. citizens entering federal and industry service.

Virginia Tech offers multidisciplinary opportunities in cybersecurity education and research, with participating faculty from the departments of

Computer Science, Electrical and Computer Engineering, Political Science, and Business.

The Department of Computer Science at Virginia Tech integrates cybersecurity across its teaching and research, preparing students to design, analyze, and defend complex systems. The department's undergraduate and graduate programs include foundational courses in secure computing, cryptography, systems and network security, and privacy, complemented by hands-on lab experiences that emphasize resilience and real-world impact. Faculty research spans areas such as software and hardware security, trustworthy AI, cyber-physical systems, and privacy-preserving computation.

The Bradley Department of Electrical and Computer Engineering administers multiple relevant majors related to the mission of VTNSI, including the Computer Engineering major and the Networking and Cybersecurity major. Additional majors housed within the College of Liberal Arts and Human Sciences and the Pamplin College of Business include National Security and Foreign Affairs, Business Information Technology, and International Studies.

Centers such as the Hume Center and the Integrated Security Education and Research Center (ISERC) research defense and intelligence applications of cyber-attack and defense. The IT Security Lab, part of the university's CIO organization, is able to use the university's production network as a teaching hospital for cybersecurity.

DESIGNATIONS

- CAE-Cyber Defense
- CAE-Cyber Research

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