CAE-CD is not the end goal, it is the first door to a world of opportunities for Cyber Initiatives

What is next?

CAE

PoS

Shankar Banik, PhD
Professor and Head of Department of Cyber and Computer Sciences
Director, Citadel DoD Cyber Institute

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CYBER AND COMPUTER SCIENCES

NSA/DHS designated National Center of Academic Excellence in Cyber Defense since **2016**

Fourteen students have been awarded **Department of Defense Cybersecurity Scholarship (DoD CySP)** since **2016**

Majors:
- **BS in Computer Science**
- BS in Cyber Operations
  - Designed based on NSA CAE-CO
  - Started in **Fall 2020**

Minors:
- **Cybersecurity**
- Cyber Inter-disciplinary Studies

The Citadel secured **$2.8M** in funding from the National Science Foundation for **CyberCorps® Scholarship for Service (SFS) program (2020-24)** **First SFS Program in South Carolina**

CAE Grant:
- Collaborating with **University of South Carolina** on NCAE-C Research Grant for **Context-Aware Data Security for Internet of Things (IoT) 2020-22**

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CAE Grant:

- Collaborating with **University of Memphis, University of West Florida, North Carolina A&T University** on NCAE-C Research Grant for **Cybersecurity Education for Critical Infrastructure Protection 2021-22**

NSA/NSF funded **GenCyber** Summer Camps for Middle/High School Teachers/Students
Teachers Camp: **2016**
Students Camp: **2018, 2019, 2021, 2022**
All Girls Camp: **2019, 2021, 2022**

Grant from Army Cyber Institute

- Hosted **Jack Voltaic Conference on Cyber Resiliency for Critical Infrastructure** on **Feb 24-25, 2022**
- **Keynote Speaker**: LTG Fogarty, Army Cyber Command
- **Sessions included**
  - Cyber Education, Cyber Risk Assessment, Cyber Workforce Development, Federal and State Policies
  - Cyber Table-Top Exercise
  - Case-Scenario based Exercises for Students

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NCAE-C Grant for Senior Military Colleges (SMC) **2020-22**

Mission of Citadel DoD Cyber Institute (CDCI)
To ensure the delivery of Principled Leaders for the Department of Defense who are **educated** and **trained** in cybersecurity skillset that is required to join the cyber workforce on "day one" after graduation

CDCI hosted **Cyber Summer Bootcamp** for South Carolina **Army National Guard** in Summer of **2021**

Cyber Leadership Development Program (CLDP)
• Cyber Education
• Cyber Competency
• Internship & Cyber Competitions
• Capstone Projects
• Service Learning
• Professional Mentorship

CDCI will host **Cyber Summer Immersion Program** (with University of North Georgia and Norwich University) in Summer **2022**

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Cyber Lab:
- NetLab Framework from NDG
- Vmware vCloud Director

Cyber Range:
- Red Team/Blue Team Practice

Students Activities:
- Cyber Club
- WiCyS Club
- Cyber Team

Cyber Competitions:
- National Cyber League (NCL)
- National Cyber Exercise (NCX)
- NSA CodeBreaker Challenge
- Southeast Collegiate Cyber Defense Competition (SECCDC)
- Palmetto Cyber Defense Competition (PCDC)
- Cyber RedZone CTF
- Hack The Port
- CAE Cyber Games
- Military Academy Cyber Defense Exercise (MACDX)
- DOE CyberForce Competition

Citadel Students participated in **INSuRE** Project in **Fall 2021/Spring 2022**

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