

HAROLD L. MARTIN SR. ENGINEERING RESEARCH AND INNOVATION COMPLEX



North Carolina Agricultural and Technical State University is a public land-grant university ranked by the Carnegie Classifications as a doctoral, high research activity institution. Established in 1891 as the Agricultural and Mechanical College for the Colored Race, today the university is a research engine, education center and economic catalyst serving the region, the state of North Carolina, the nation and the world. Teaching and scholarly work rooted in leveraging scientific principles to design and build machines, structures and processes, and create solutions for society, were points of focus and excellence from the very beginning of our university.

In 2016, North Carolina voters approved a \$2 billion bond referendum that included \$90 million in funding for a 130,000-square-foot facility at N.C. A&T. Construction on what ultimately became the Harold L. Martin Sr. Engineering Research and Innovation Complex began in fall 2018 and was completed on time and under budget in 2021.



COMPLEX HIGHLIGHTS

- A multifunctional engineering and computer science facility and a home to state-of-the-art research, instruction and learning, and community engagement. The Martin Complex celebrates the importance of curious minds, cutting-edge equipment, collaboration and information exchange to the process of innovation. It is critical to A&T's College of Engineering's preparation of the engineers and computer science professionals for today and tomorrow.
- The Martin Complex promotes interaction and innovation among faculty, students and staff through small-group collaboration areas, core laboratories, shared facilities, a student-designed and student-run makerspace, and flexible classrooms.
- It furthers A&T's nationally recognized leadership in STEM education and its status as America's single largest source of African American engineers at the undergraduate, master's and doctoral levels.
- Designed to be user-centered and with adjacencies in mind, the Martin Complex is also reconfigurable for emerging research and educational needs and features living labs that nurture learning, practice and innovation.
- Through its singular example, the Martin Complex facilitates research and learning around cybersecurity, autonomy and sensing, health care, energy and sustainability—and their convergence and emergence across the disciplines of the College of Engineering and beyond.
- The Martin Complex enables faculty, staff and student application of speed-to-market principles for new projects and prototypes, testing capabilities, and research, development and application opportunities that impact society and the community.
- The facility received silver certification from LEED (Leadership in Energy and Environmental Design), the global standard in rating green buildings for efficiency and sustainability.
- The Martin Complex positions A&T to collaborate with the U.S. Intelligence Community in the future to develop a sensitive compartmented information facility (SCIF).



**NORTH CAROLINA AGRICULTURAL
AND TECHNICAL STATE UNIVERSITY**

ENGINEERING

FUNDING

**\$90M**

Connect NC Bond

SIZE

**130,000**

square feet

DESIGNER



EYP Inc.

CONSTRUCTION
MANAGER

Balfour Beatty

STUDENTS

**2,316**

FACULTY

**96****COLLEGE OF ENGINEERING*****Degree Programs:***

- 10 ABET Accredited Bachelor of Science
- 8 Master of Science including 5 online
- 5 Doctoral

Departments:

- Chemical, Biological and Bioengineering
- Civil, Architectural and Environmental Engineering
- Computer Science
- Computational Data Science and Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Mechanical Engineering

Examples of related centers, institutes and research collaborations:

- Center of Excellence in Product Design and Advanced Manufacturing
- Center of Excellence in Cybersecurity, Research, Education and Outreach
- Center for Cyber Defense
- Center for Energy Research and Technology
- Center for Advanced Studies in Identity Sciences
- Center for Composite Materials Research
- NC Transportation Center of Excellence on Connected and Autonomous Vehicle Technology
- Testing, Evaluation, and Control of Heterogeneous Large Scale of Autonomous Vehicles DOD Center of Excellence in Autonomy
- DOD Center of Excellence for Biotechnology
- Autonomous Control and Information Technology Institute
- NASA ULI in Secure and Safe Assured Autonomy
- NASA ULI in Innovative Manufacturing, Operation, and Certification of Advanced Structures for Civil Vertical Lift Vehicles
- NSF CREST Center for Bioenergy
- NSF Engineering Research Center for Revolutionizing Metallic Biomaterials
- Visualization and Computation Advancing Research Center

