



MASTER OF SCIENCE IN CIVIL ENGINEERING



Program Overview

The Department of Civil, Architectural and Environmental Engineering seeks to provide a high quality educational and intellectual experience for engineers. Our department seeks to foster an environment of excellence in teaching, research and engagement; a diverse and inclusive environment to meet the needs of a diverse student population; and academic and operational excellence.

The Master's program in Civil Engineering focuses on training and research in areas such as Structures, Geotechnical, Transportation, Environmental, Water, Energy and Sustainability. The Master of Science in Civil Engineering is a 30-credit hour program.

- Thesis Option: 24 course credit hours + 6 credit thesis research
- Project Option: 27 course credit hours + 3 credit project research
- Course Option: 30 course credit hours (Traditional Civil-Track or Systems Engineering Concentration)

For More Information

Please Contact:
Graduate Program Coordinator,
Dr. Manoj Jha
mkjha@ncat.edu
336-285-3678

Program Purpose and Focus

The mission of the Master of Science program in Civil Engineering is to provide an advanced educational program that focuses on graduate studies in structural, geotechnical, transportation, environmental, and water resources engineering, including energy and sustainability. The program is designed to be attuned to the unique abilities of students and prepare them to become productive master's-level civil engineers contributing to the welfare, quality of life, protection, and advancement of the community.

Areas of Concentration & Research

- Construction Engineering
- Environmental Engineering
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering
- Water Resources Engineering
- Building Energy & Sustainability
- Systems Engineering (Civil focus)

Scholarly Engagement

Students and faculty have published in the following top-tier journals in the field of Civil and Architectural Engineering:

- Indoor and Built Environment
- Journal of Structural Engineering
- Construction and Building Materials
- Journal of Materials in Civil Engineering
- Water Resources Research
- Journal of American Water Resources Association
- Faculty in CAEE are owners of 3 patents for innovative technologies

Graduate Placement

Students who complete their MS degrees in Civil Engineering are prepared for jobs in engineering firms or government agencies in fields related to their specialty areas. Students in our program have obtained jobs at:

- Department of Transportation
- Department of Energy
- CH2M Hill
- Turner Construction
- Southland
- DLZ
- Hazen and Sawyer
- Whiting-Turner
- Various other Consulting Firms
- Various other government agencies

Students who completed their M.S. degrees in Civil Engineering have continued to graduate studies for PhD and additionally M.S. degrees at various Research 1 Institutions.

Funding

Fellowships and Assistantships are approved based on the department need and university funding. Faculty with active research grants may provide Research Assistantships with stipends and part of the cost for tuition. Students are expected to be able to cover their cost-of attendance if funding is not provided or their remaining balance due for their graduate studies. Please see NCA&T's Graduate College Cost of Attending Summary to confirm the tuition and fee rates.

North Carolina Agricultural and Technical State University
THE GRADUATE COLLEGE
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<https://graduateadmissions.ncat.edu>



NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIVERSITY

THE GRADUATE COLLEGE

OUR RESEARCH STRENGTHS

- Aerospace and Transportation Systems
- Biomedical Research
- Biotechnology & Biosciences
- Computer and Computational Sciences
- Defense and National Security
- Energy and the Environment
- Food Science
- Human Health, Nutrition and Wellness
- Leadership and Community Development
- Nanotechnology and Multi-Scale
- Social and Behavioral Sciences
- Transportation and Logistics

AGGIE POINTS OF PRIDE

- Ranked by the Carnegie Classification of Institutions of Higher Education as “doctoral/research university”
- Ranked third within the UNC System in research funding, with over \$56 million in sponsored programs and nearly \$7 million in appropriations for agricultural research and cooperative extension
- Received the National Science Foundation’s prestigious Engineering Research Center (ERC) grant for biomedical engineering and nano-bio applications research totaling more than \$18 million over five years
- Received a National Science Foundation’s Math S-STEM Program in Mathematics grant
- The National Council on Teacher Quality (NCTQ) preparation programs among the top in the state
- North Carolina A&T graduates students in STEM disciplines at nearly twice the rate of the UNC system average
- The Triangle Business Journal has reported that North Carolina A&T State University ranks No. 1 among historically black colleges and universities in North Carolina and No. 4 in the UNC System for the highest return on investment of colleges and universities

ADMISSIONS REQUIREMENTS and DEADLINES

ADMISSION REQUIREMENTS

- Online application
- Application fee
- Transcripts
- Personal statement
- Recommendation letters

* Some programs require standardized test scores and/or on campus interviews

IMPORTANT APPLICATION DEADLINES

	Priority	US Citizen	International
Fall	February 1	July 1	June 1
Spring	September 1	November 1	October 1
Summer	NA	April 1	NA

Earlier deadlines for certain programs apply. Check www.ncat.edu/tgc and click Graduate Admissions–Admission Application Requirements and Instructions.

FINANCING GRADUATE STUDIES

For detailed information on tuition, fees, and related costs of education, assistantships, fellowships, and other financial assistance visit www.ncat.edu/tgc and click Financial Information.

CONTACT INFO

THE GRADUATE COLLEGE
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