Computer Science

College of Engineering Graduate Program

www.tntech.edu/engineering

Earn a Master of Science in computer science or a Ph.D. in engineering while pursuing research in one of our focus areas with knowledgeable faculty who value both scholarship and research.

Join a nationally recognized program

Tennessee Tech is a fully accredited university and is recognized as a doctoral university by the Carnegie Classification of Institutions of Higher Education.

Solve 21st Century global problems

Tech's Master of Science degree in computer science is a dynamic. Graduate students learn to develop solutions for issues related to process and product design, experimentation and analysis. Your professors will help you stay current with all the latest innovations within the discipline, and you will become familiar with the tools and technologies used by today's electrical and computer engineers.

Strategic Research Areas

Research goals are being implemented through our existing research centers and by continually refining and focusing our strategic research areas. These areas include, but are not limited to

- Advanced Manufacturing
- Biomolecular and Environmental Engineering and Science
- Energy Storage and Conversion
- Networking and Algorithms for Big Data
- Smart Grid
- Resilient Infrastructure

Research Opportunities

The computer science graduate program offers students the opportunity to pursue a M.S. or Ph.D. degree in multiple emerging research areas

- Knowledge discovery (data science)
- Cyber security
- Parallel, distributed, and high performance computing

The program focus is to enhance research and professional skills, with coursework that emphasizes practical outcomes as well as theoretical perspectives. A master's student can choose among three options:

1. a research thesis
2. an individual project
3. coursework-only

Research Centers

College of Engineering research efforts are often conducted in collaboration with four research centers

- Center for Energy Systems Research
- Center for Manufacturing Research
- Center for the Management, Utilization and Protection of Water Resources
- Cybersecurity Education, Research and Outreach Center

Receive mentoring by dedicated faculty

Computer Science faculty members provide mentorship experiences and research opportunities to build a strong foundation for coalescing knowledge, practice, and policy. Our faculty members' research interests include Data/Graph Mining, Machine Learning, Big Data, Medical Informatics, Cloud Computing, Smart Grid Security, Cyber Physical System Security, Malware, High Performance Computing, and Computer Science Education. A listing of faculty members is available at www.tntech.edu/engineering/departments/csc/people/dev-fs

Graduate Assistantships

A limited number of research and teaching assistant positions are available contingent upon funding.

Get started today!

Individuals interested in the Master of Science degree or Ph.D. in in computer science can obtain additional information on the programs webpage www.tntech.edu/engineering/departments/csc/people/dev-fs or by emailing info@csc.tntech.edu.

> **"The graduate program opened my eyes to cutting-edge research and improved my ability to evaluate new ideas. I was able to apply what I learned in the program to my work in information retrieval."**
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> —Matt Honeycutt '12