We are the Min H. Kao Department of Electrical Engineering and Computer Science at the University of Tennessee, the largest department in the College of Engineering. We have XX faculty members, who are respected, world-class leaders in their fields and are dedicated to teaching students and aiding them in developing the technical and communication skills necessary to have successful careers. Our rigorous curriculum prepares students to be successful in their future profession and offers the flexibility for students to choose courses that match their interest areas.

Research Centers

Center for Ultra-wide-area Resilient Electric Energy Transmission Networks (CURENT)
curent.utk.edu CURENT was founded by the National Science Foundation (NSF) under the prestigious Engineering Research Center (ERC) program. Base funding provided by the NSF and the US Department of Energy is at $4 million per year. CURENT is the first and only ERC at UT and works closely with its industrial partners with a focus on improving the nation’s electric power transmission system and accommodating a high level of renewable energy penetration.

Innovative Computing Laboratory (ICL)
icl.utk.edu The Innovative Computing Laboratory (ICL) is a large computer science research and development group specializing in advanced scientific and high performance computing. ICL’s founder, Dr. Jack Dongarra, established the lab in 1989. Dr. Dongarra is the creator of the LINPACK Benchmarks, linear algebra tests that measure the mathematical capabilities of computers. The latest version of these benchmarks is used to build the TOP500 list, ranking the world’s most powerful supercomputers.

TENNSlab- Neuromorphic Architectures, Learning, Applications neuromorphic.eecs.utk.edu We are a group of faculty, post-docs, graduate students and undergraduates researching a new paradigm of computing, inspired by the human brain. Our research encompasses current and emergent hardware implementations, theoretical models, programming techniques and applications.

Financials

EECS Research Expenditures

- FY '13: $5,000,000
- FY '14: $10,000,000
- FY '15: $15,000,000
- FY '16: $20,000,000
- FY '17: $25,000,000
- FY '18: $30,000,000
- FY '19: $35,000,000

EECS Research Expenditures for Fiscal Year 2019: $25,224,368

EECS Research Expenditures per T/TT Faculty for Fiscal Year 2019: $434,903

ASEE Survey Data for 2019

11th nationally among public EECS programs in research expenditures per tenure-line faculty member.
19th nationally among public EECS programs in Ph.D. enrollment per tenure-line faculty member.
**Research Areas**

- Power Systems, Power Electronics and Renewable Energy
- Microelectronics, Microwaves and MEMS
- Signal and Image Processing, Communications and Controls
- Networked and Embedded Systems
- Intelligent Systems, Data Analytics, and Machine Learning
- Software and Systems and High-Performance Computing

**Five-Year BS/MS Program**

The Five-Year BS/MS Program allows qualifying undergraduate students to take up to 6 hours of approved graduate courses for their senior electives and have them count toward both their BS and MS degrees at the University of Tennessee thereby reducing the amount of time it takes to earn the latter.

**Student Organizations**

- ACM: The student chapter of the Association for Computing Machinery at the University of Tennessee is dedicated to serving its members by providing information about job opportunities, the computer science fields, and a location for our local members to share their knowledge and experience in the world.
- Eta Kappa Nu: Eta Kappa Nu is the International Electrical Engineering Honor Society, with more than 100,000 members and 194 chapters in the United States, Canada and Europe.
- HackUTK: The mission of HackUTK is to promote student interest in the fields of computer and network security through participation in and sponsorship of Capture the Flag competitions and related activities that inspire, develop, and empower the future generation of computer scientists.
- IEEE: The Student Chapter of the Institute for Electrical and Electronics Engineers (IEEE, “eye-triple-E”) is a professional society seeking to involve students enrolled in the study of electrical and computer engineering at the University of Tennessee, Knoxville.
- Systers: The mission of Systers: Women in EECS @ UTK is to recruit, mentor, and retain women in Electrical Engineering and Computer Science at the University of Tennessee.
- Tau Beta Pi: Tau Beta Pi’s collegiate chapters elect members who have distinguished themselves with outstanding scholarship and character, and who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as undergraduates in engineering.
- The University of Tennessee Amateur Radio Club: Founded in 1947, UTARC is for anyone with an interest in Amateur Radio: students, faculty, staff and the general public.
- utkML: Machine Learning Student Organization (UTKML): With a focus on interdisciplinary collaboration, the organization brings together students from many backgrounds and levels of expertise to work on problems where data is readily available.
- VolHacks: VolHacks is The University of Tennessee's premier student hackathon that brings students from near and far together for an action packed 36 hours of hacking. Students who attend the hackathon are able to develop any software or hardware project their minds can dream up.

**Scholarships & Fellowships**

- Carol and Malcolm Bayless
- Dr. M.E. and Mrs. J.N. Casey
- Grace O. Davis
- Department of Electrical Engineering & Computer Science
- Christopher J. and Michelle R. Gentry
- S.T. Harris
- Urban and Susan Hilger
- Beta-Phi Chapter, Eta Kappa Nu
- Dr. E.J. and Mrs. L.H. Kennedy
- Alliene Lay
- W.O. Leffell
- Edgar Wyman McCall
- Harlan D. and Luella C. Mills
- Billy J. and Sylvia F. Moore
- L.B. Murray, Jr. & Leonard B. Murray, Sr.
- Erby Roy and Jean Bush Nankivell
- David O. and Joan G. Moore
- Richard and Mary Ann Peugeot
- Leonard and Betty Shealy
- Charles and Martha Sprankle
- David W. Straight
- Fred Smith Vreeland
- Charles Weaver Memorial
- Arthur F. Woods
- Min H. Kao Scholars

- Bodenheimer Fellowships
- T. Vaughn Blalock Memorial Graduate Award
- Chancellor’s Honors Awards
- Min. H. Kao Fellowships
- Pierce Graduate Award
- Ron Nutt Fellowships
- Department Excellence Awards