We are the Department of Electrical Engineering and Computer Science at the University of Tennessee, the largest department in the College of Engineering. We have 42 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.

Enrollment Figures

<table>
<thead>
<tr>
<th>Enrollment (Full-Time)</th>
<th>Academic Year 2017-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>813</td>
</tr>
<tr>
<td>MS Enrollment</td>
<td>74</td>
</tr>
<tr>
<td>Ph.D. Enrollment</td>
<td>201</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1088</strong></td>
</tr>
</tbody>
</table>

Fall 2017 Freshman Enrollment

- Computer Science: 122
- Computer Engineering: 55
- Electrical Engineering: 45
- **Total EECS Freshmen**: 222

Degrees Granted 2016-2017

- Undergraduate: 149
- M.S.: 38
- Ph.D.: 29
- **Total**: 216

Faculty 2017-2018

- Professors: 23
- Associate Professors: 10
- Assistant Professors: 6
- Professors of Practice: 3
- Adjunct: 16
- Joint Faculty from ORNL: 30
- **Total**: 88

Faculty Honors

- National Academy of Engineering (NAE) Members: 4
- NSF Career Award Winners: 11
- IEEE Fellows: 17
- UT Faculty Members with an ORNL Appointment: 20

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.

Initiative for Point of Need/Point of Care Nanobiosensing (IPN)
nanobio.eecs.utk.edu

Joint with MABE, Nutrition and Public Health. This collaborative initiative aims to use nanobiosensing technology to design, test, and validate rapid tests at point of need (PON) and/or point of care (POC) to facilitate clinical disease diagnosis and monitoring of environmental, food or water safety.

Oak Ridge National Laboratory

Oak Ridge National Laboratory is the largest US Department of Energy science and energy laboratory, conducting basic and applied research to deliver transformative solutions to compelling problems in energy and security. ORNL’s diverse capabilities span a broad range of scientific and engineering disciplines, enabling the Laboratory to explore fundamental science challenges and to carry out the research needed to accelerate the delivery of solutions to the marketplace. ORNL is located near the University of Tennessee in the town of Oak Ridge, and several EECS Faculty members have joint ORNL appointments there and even more have joint collaborations.

Research Centers

Degrees, Minors & Certificates Offered

**Degrees**

- Bachelor of Science
  - Electrical Engineering
  - Computer Engineering
  - Computer Science
  - (All B.S. degrees ABET accredited)

- Master of Science
  - Electrical Engineering
  - Computer Engineering
  - Computer Science

- Doctor of Science
  - Electrical Engineering
  - Computer Engineering
  - Computer Science

**Minors & Certificates**

- Computer Science Minor
- Cybersecurity Minor
- Datacenter Technology and Management Minor
- Power and Energy Systems Graduate Certificate
- Fire Protection Engineering Graduate Certificate
- Wide Bandgap Power Electronics Certificate

Financials

EECS Research Expenditures

- **EECS Research Expenditures for Fiscal Year 2017**: $21,744,838
- **EECS Research Expenditures per T/TT Faculty for Fiscal Year 2017**: $529,716

16th nationally among public EECS programs in research expenditures per tenure-line faculty member.

9th nationally among public EECS programs in Ph.D. enrollment per tenure-line faculty member.
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.

Scholarships
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
Aliene 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. Patterson
Richard and Mary Ann Peugeot
Leonard and Betty Shealy
Charles and Martha Sprinkle
David W. Straight
Fred Smith Vreeland
Charles Weaver Memorial
Arthur F. Woods
Min H. Kao Scholars

Fellowships
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

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.

Systs
The mission of Systs: Women in EECS @ UTK is to recruit, mentor, and retain women in Electrical Engineering and Computer Science at the University of Tennessee.

Systs is proud of their accomplishments so far: mentoring young women entering EECS, reaching out to girls in the community to tell them about opportunities in our field, and helping ensure that talented students have access to our department’s resources and our community’s industry opportunities, regardless of gender.

Tau Beta Pi
Tau Beta Pi’s collegiate chapters elect members who have distinguished themselves with outstanding scholarship and character. Founded in 1885 to mark in a fitting manner those who have conferred honor upon their alma mater by distinguishing scholarship and exemplary character as undergraduates in engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in engineering colleges. The Tennessee Alpha Chapter at the University of Tennessee was founded in 1929.

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.