LEADERSHIP
Mark Dean, Interim Dean

ABOUT THE COLLEGE
Since 1838, the Tickle College of Engineering has proven its commitment to excellence in scientific research and the training of engineering professionals. Programs spanning most major engineering fields are offered, with several nationally ranked among the top 30 of all public institutions. Many of our graduates have risen to top positions in industry, government, and academia, including nine astronauts who have literally risen, spending a collective 1,000 days (and counting!) in space.

QUICK FACTS
- Ranked 29th (graduate) and 33rd (undergraduate) among public programs of engineering (U.S. News & World Report, 2019)
- 33% growth in PhD enrollment since 2012—one of the fastest-growing PhD programs in the nation
- 22nd largest PhD program in the US
- Three new buildings opened since 2012, with a fourth in the design phase (to open in 2021)
- $79M annual research expenditures; Avg. $511K per faculty member
- 27,000+ alumni worldwide

DEGREES GRANTED
Academic Year 2017–2018
Bachelor of Science 612
Master of Science 167
Doctor of Philosophy 111
Total 890

ENROLLMENT
Undergraduate (FA18) 3,509
Graduate (FA18) 1,109
MS 381
PhD 728
Female 22%
Underrepresented minorities 10%
Total 4,618

ADMISSION REQUIREMENTS
Minimum standards: must have a bachelor’s degree from an accredited institution and a 2.7 out of a possible 4.0 GPA. Contact departments for specific additional application or program requirements. International applicants whose native language is not English must submit TOEFL or IELTS test scores to be fully admitted.

ESTIMATED COST OF ATTENDANCE
Academic Year 2018–2019
Graduate In-State Student $13,120
Graduate Out-of-State Student $31,538
Engineering Fee (per semester hour) $64
Additional special course fees may apply. onestop.utk.edu/tuition-detail

Approximately 80 percent of full-time graduate students receive tuition waivers and stipends from the university through assistantships. gradschool.utk.edu/graduate-student-life/costs-funding

DISTANCE EDUCATION
engr.utk.edu/academics/distance
The college provides motivated individuals an opportunity to obtain select conventional graduate degrees or graduate certificates without having to attend instructional sessions in a traditional setting. Consult individual departments for details.

GRADUATE DEGREES OFFERED

** MS Degrees **
Aerospace Engineering
Biomedical Engineering
*Biosystems Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial Engineering
Materials Science & Engineering
Mechanical Engineering
MS-MBA Program
Nuclear Engineering
Reliability & Maintainability

** PhD Degrees **
Aerospace Engineering
Biomedical Engineering
*Biosystems Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Data Science & Engineering
Electrical Engineering
Energy Science & Engineering
Engineering Science
Industrial Engineering
Materials Science & Engineering
Mechanical Engineering
Nuclear Engineering

* Offered through the College of Agriculture
** In conjunction with the Bredesen Center for Interdisciplinary Research & Graduate Education

DIVERSITY INITIATIVES
The college is dedicated to increasing the number of underrepresented students—including African Americans, Hispanics, Alaskan Natives, Pacific Islanders, Native Americans, and women—who graduate from UT with engineering degrees.

National GEM Consortium
gemfellowship.org
UT is a proud member of the National GEM Consortium, which works to increase the participation of underrepresented groups at the master’s and doctoral levels in engineering and science. GEM develops funding to award fellowships and builds mentor networks to support fellows in achieving academic and professional success.

Women in Engineering
engr.utk.edu/women
The college actively encourages female students to develop and focus their interests in engineering through peer and faculty networking, mentoring and support programs, professional development, leadership training, and alumni networking opportunities.

CONTACT US
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OUTSTANDING FACULTY
The college has world-renowned researchers spanning multiple disciplines across all departments, including four National Academy of Engineering members; one Distinguished Scientist; two Distinguished University Professors; 12 UT-ORNL Governor’s Chairs; 43 endowed faculty, professorships, and faculty fellows; three named professors of practice; and the Wayne T. Davis Dean’s Chair in Engineering.

Tenured and Tenure-Track Faculty
*Fiscal Year 2018*
Professors 91
Associate Professors 44
Assistant Professors 41
Total 176

UT-ORNL Governor’s Chair Program
govchairs.utk.edu
The joint UT-ORNL Governor’s Chair program has brought 12 world-renowned researchers to the college, positioning both institutions as leaders in several fields. The funding brought in by these professors is measured in the tens of millions, while the research done under their watch has elevated the intellectual capacity of UT and benefitted doctoral, graduate, and undergraduate students through research opportunities.

PREMIER RESEARCH FACILITIES
ting.utk.edu/engrresearch
UT is designated by the Carnegie Foundation as a Research University with Very High Research Activity. The college alone houses more than 100 research labs. Over the past several years, our research program has grown by leaps and bounds, with a steady increase in funding and significant growth in PhD student involvement over the last five years. This growth, spurred by the increased quality of our faculty’s research, as well as additional research leadership, has enhanced support of graduate programs and new facilities.

OAK RIDGE NATIONAL LABORATORY
ornl.gov
UT’s close alliance with nearby ORNL allows students unique opportunities to pursue research with internationally respected scientists. ORNL’s core focus areas include advanced materials, national security, nuclear sciences, clean energy, neutron science, and supercomputing.

Select ORNL Facilities
Joint Institute for Computational Sciences—jics.utk.edu
Shull Wollan Center, a Joint Institute for Neutron Sciences—swn.orl.gov

Spallation Neutron Source—neutrons.ornl.gov/sns
A unique accelerator-based neutron source that provides the most intense pulsed neutron beams in the world for scientific research and industrial development.

High Flux Isotope Reactor Center—neutrons.ornl.gov/hfir
Operating at 85MW, it’s the highest flux reactor-based source of neutrons for condensed matter research in the US, producing thermal and cold neutrons used to study physics, chemistry, materials science, engineering, and biology.

RESEARCH CENTERS
enr.utk.edu/research/centers

Center for Materials Processing (CMP)
cmp.utk.edu
Designated by the state of Tennessee as a Center of Excellence, CMP supports teaching and conducting basic and applied research emphasizing relationships between processing, structure on various scales, and properties of all classes of materials. CMP fosters faculty and student relationships with industrial partners through a variety of memberships.

Center for Transportation Research (CTR)
ctr.utk.edu
CTR investigators address technical and policy-related issues through sponsored research in highway transportation safety, railway and inland waterway systems, transportation economics, goods movement, transportation planning, traffic demand modeling, and STEM education. CTR also works with community agencies to meet the needs of transportation disadvantaged citizens through a van purchase program.

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 program and is funded largely by NSF and the US Department of Energy. CURENT works closely with its industrial partners to improve the security, reliability, and performance of the power grid through the development of breakthrough monitoring and response techniques and devices.

Innovative Computing Laboratory (ICL)
icl.utk.edu
ICL is a world leader in enabling technologies and software for scientific and high performance computing. ICL’s vision is to provide high-performance tools to tackle science’s most challenging problems and to play a major role in the development of standards for scientific computing.

Institute for a Secure and Sustainable Environment (ISSE)
isse.utk.edu
ISSE seeks to promote the development of policies, technologies, and educational programs that cut across multiple disciplines, engage the university’s research faculty and staff, and grow in response to pressing environmental and security issues facing the state, nation, and globe.

Reliability & Maintainability Center (RMC)
rmc.utk.edu
A university-industry association dedicated to improving industrial productivity, efficiency, safety, and profitability through advanced reliability and maintainability technologies and management principles. A key focus is on helping organizations attain and sustain top quartile performance. RMC offers education and professional development, R&M internships, conferences, research, and industry-focused initiatives.

Scintillation Materials Research Center (SMRC)
enr.utk.edu/smrc
A multidisciplinary research facility supported by Siemens Medical Solutions and by federal agencies. SMRC’s mission is to discover and develop new scintillation materials with applications in medical imaging and national security.