

LEADERSHIP

Dr. Wayne T. Davis, Dean,

Wayne T. Davis Endowed Dean's Chair in Engineering

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MISSION

The origin of the college dates back to 1838. Its mission is to provide high-quality education in the major engineering disciplines from the undergraduate through doctoral levels through a creative balance of academic, professional, and extracurricular programs.

ACADEMICS

Degrees Granted in Academic Year 2015-2016

Bachelor of Science	519
Master of Science	181
Doctor of Philosophy	90

Total **790**

Degrees Offered

Bachelor of Science:

Aerospace Engineering
Biomedical Engineering
*Biosystems Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Industrial Engineering
Materials Science & Engineering
Mechanical Engineering
Nuclear Engineering

Master of Science:

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 Engineering

Doctor of Philosophy:

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

*Degrees offered in the College of Agricultural Sciences and Natural Resources. See casnr.utk.edu for more information

STUDENTS

Enrollment for Academic Year 2016-2017

Undergraduate	3,235	(75%)
Male	2,602	(80%)
Female	633	(20%)
African-American	127	(4%)
Other minorities	386	(12%)
Graduate	1,103	(25%)

Total **4,338**

The entering freshman engineering class had an average composite ACT score of 29.

Alumni Information

Graduates of the BS curricula offered by the college may pursue advanced graduate study or take positions in private industry or government. The average 2016 starting salary for a Tickle College of Engineering graduate with a bachelor's degree was \$65,300.

Half of our graduates stay in Tennessee; half represent UT engineering across the United States and around the world.



FACULTY

Outstanding Faculty

The college has five National Academy of Engineering Members; one Distinguished Scientist; two University Distinguished Professors; twelve UT/ORNL Governor's Chairs; one Chancellor's Professor; eight Endowed Chairs; the Wayne T. Davis Endowed Dean's Chair in Engineering;



twenty-seven Endowed Professorships; three Endowed Faculty Fellows; four Professors of Practice; and one TCE Career Development Professorship.



Costs for Academic Year 2016-2017

Undergraduate Tennessee Resident Tuition & Fees	
New (admitted fall 2014 and after)	\$12,724
Returning (admitted pre-fall 2014)	\$12,498
Returning (admitted pre-fall 2013)	\$11,038

Graduate Tennessee Resident Tuition & Fees \$12,834

Undergraduate Non-Tennessee Resident Tuition & Fees	
New (admitted fall 2014 and after)	\$31,144
Returning (admitted pre-fall 2014)	\$30,918
Returning (admitted pre-fall 2013)	\$29,458

Graduate Non-Tennessee Resident Tuition & Fees \$31,252

Housing and Food (estimated)*	
Undergraduate	\$10,238
Graduate	\$12,780

Engineering Fee (per student credit hour) \$63

Students who are Tennessee residents with a minimum ACT score of 21 (980 old SAT or 1060 new SAT), or have an overall weighted minimum 3.0 GPA, are eligible to receive the HOPE Scholarship (\$3,500-\$4,500 yearly).

Incoming first-year students with a minimum 3.8 UT weighted core GPA are eligible to receive the Volunteer Scholarship. Based on ACT/SAT scores, the awards range from \$3,000 to \$8,000 for Tennessee residents and from \$10,000 to \$18,000 for out-of-state students. For details:

onestop.utk.edu/financial-aid.



Tenured and Tenure-Track Faculty for Fiscal Year 2016

Professors	85
Associate Professors	44
Assistant Professors	43

Total **172**

ACADEMIC SUPPORT PROGRAMS



Engineering Honors Program

www.engr.utk.edu/ehp

The Tickle College of Engineering Honors Program provides robust intellectual challenges and opportunities for broader experiences to prepare graduates who will be highly competitive and ready to solve the grand challenges of the twenty-first century. Admission as a first year student to the EHP is by invitation, which is extended by the Dean's office to students meeting rigorous academic standards.

The Jerry E. Stoneking *engage*TM Program

www.engr.utk.edu/efd

Freshman students admitted to the Tickle College of Engineering are automatically enrolled in one of the nation's most innovative freshman engineering programs—the *engage*TM Program—a cutting edge, success-oriented approach to first-year engineering education. The *engage*TM Program's curriculum is built around teaming students for project-oriented, hands-on activities.

Engineering Advising Services (EAS)

www.engr.utk.edu/advising

The Engineering Advising Services Office provides academic program planning services to undergraduate students in the Tickle College of Engineering.

Engineering Professional Practice

www.coop.utk.edu

Since 1926, the Office of Engineering Professional Practice has assisted thousands of engineering students to obtain educationally relevant real-world engineering experiences through the cooperative education (co-op) and internship education programs. The highly competitive co-op program is the office's premier program and offers structured learning environments where students develop increasing responsibilities by holding full-time, paid positions in a professional setting related to their academic and career goals normally alternating between three semesters of work and school with the same company. The internship education program provides students a condensed set of experiences through a single engineering work semester, typically in the summer.



Distance Education Graduate Degrees and Certificates in Engineering

www.engr.utk.edu/academics/de

Distance Education (DE) provides motivated individuals an opportunity to further their engineering education without having to attend instructional sessions in traditional classrooms. The Tickle College of Engineering offers selected conventional academic degree programs and graduate certificate programs through DE. Consult departments for details.

RESEARCH CENTERS

Center for Materials Processing (CMP)

cmp.utk.edu — Designated by the state of Tennessee as a Center of Excellence, the CMP supports teaching and conducting basic and applied research emphasizing relationships between processing, structure on various scales, and properties of all classes of materials. The CMP fosters faculty and student relationships with industrial partners through a variety of industrial 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 (ERC) program. Base funding provided by the NSF and the US Department of Energy for the first five years was \$18.5 million, which was recently extended to eight years and \$30.5 million. 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.

Innovative Computing Laboratory (ICL)

icl.utk.edu — The Innovative Computing Laboratory 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 in general. ICL's founder, Dr. Jack Dongarra, established the lab in 1989 when he began at the University of Tennessee.

Institute for a Secure and Sustainable Environment (ISSE)

isse.utk.edu — The 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, the nation, and the globe.

Reliability & Maintainability Center (RMC)

rmc.utk.edu — The RMC is 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. The RMC offers education and professional development, R&M interns, conferences, research, and industry-focused initiatives.

Scintillation Materials Research Center (SMRC)

www.engr.utk.edu/smrc — The Scintillation Materials Research Center is a multidisciplinary research facility supported by Siemens Medical Solutions and by federal agencies. The center's mission is to discover and develop new scintillation materials with applications in medical imaging and national security.

DIVERSITY INITIATIVES

www.engr.utk.edu/tce-diversity

Engineering Diversity Programs Office (EDP)

www.engr.utk.edu/diversity

The Engineering Diversity Programs (EDP) Office strives to increase the number of underrepresented students, including African Americans, Hispanics, Alaskan Natives, Pacific Islanders, and Native Americans, who graduate with engineering degrees.



Women in Engineering at UT

www.engr.utk.edu/women

Today, more than ever, women are discovering the exciting opportunities and unique challenges in the engineering field. At the University of Tennessee, we encourage the interest of young women in the science, engineering, technology, and math (STEM) fields through outreach, pre-college programs, and mentoring and support during their college careers.

The Tennessee Louis Stokes Alliance for Minority Participation (TLSAMP)

tlsamp.utk.edu

TLSAMP, a program sponsored by the National Science Foundation (NSF), was created to help double the number of underrepresented students attending college and graduating with degrees in science, technology, engineering, and math (STEM) from six participating universities in Tennessee.

Summer Pre-College Programs

www.engr.utk.edu/diversity/pre-college-programs

The Tickle College of Engineering hosts a series of summer engineering programs for rising seventh to twelfth grade students each summer. Each program is a one-week residential experience. The mission is to provide students who show an interest in engineering studies an early exposure to and preparation for scientific study and research.

