

## Departmental Information

Department of Industrial and  
Information Engineering  
416 East Stadium Hall  
Knoxville, TN 37996-0700  
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Online: [www.engr.utk.edu/ie](http://www.engr.utk.edu/ie)

## Admissions Information

Application forms are available from:

UT Office of Undergraduate Admissions  
320 Student Services Building  
Knoxville, TN 37996-0230  
Phone: (865) 974-2184  
Toll free: (800) 221-8657  
Online: » [admissions.utk.edu/undergraduate](http://admissions.utk.edu/undergraduate)

The University of Tennessee does not discriminate on the basis of race, sex, color, religion, national origin, age, handicap or veteran status in provision of educational opportunities or employment opportunities and benefits.

UT does not discriminate on the basis of sex or handicap in its educational programs and activities pursuant to requirements of Title IX of the Education Amendments of 1972, Public Law 92-318; and Section 504 of the Rehabilitation Act of 1973, Public Law 93-112; and the Americans with Disabilities Act of 1990, Public Law 101-336, respectively. This policy extends to both employment by and admission to the university.

Inquiries concerning Title IX, Section 504, and the Americans with Disabilities Act of 1990 should be directed to the Office of Equity and Diversity, 1840 Melrose Avenue; The University of Tennessee; Knoxville, Tennessee 37996-0144; (865) 974-2498. Charges of violation of the above policy also should be directed to the Office of Equity and Diversity.

THE UNIVERSITY of TENNESSEE



College of Engineering

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# industrial and information engineering

GUIDE FOR PROSPECTIVE STUDENTS



[www.engr.utk.edu/ie](http://www.engr.utk.edu/ie)

## A Message from the Department Head

We appreciate your interest in the University of Tennessee's Department of Industrial and Information Engineering (I&IE). Our undergraduate program in industrial engineering provides a strong curriculum that integrates fundamental engineering principles, mathematics, science and statistics with specialized knowledge and skills to develop a system approach to the design, improvement and rationalization of complex business, production, manufacturing and service operations.

In addition to providing excellent technical expertise on industrial engineering and exposure to relevant issues in industry such as diversity and globalization, our program prepares you to communicate effectively, both verbally and in writing; function in multi-disciplinary teams; and continue learning throughout your entire life. Our program, which is accredited by the ABET Engineering Accreditation Program, culminates with a senior design course where you will apply acquired principles and knowledge to solve an actual industrial problem.

If you would like to learn more about our department or what it takes to become an industrial engineer, let us know. Please call (865) 974-3333 or email [iie@utk.edu](mailto:iie@utk.edu). We look forward to hearing from you!

Sincerely,  
Dr. Alberto Garcia, I&IE Interim Department Head



## What is Industrial Engineering?

The key element of industrial engineering is its system approach that integrates production resources such as materials, equipment, energy, information and people to create an efficient and competitive business operation. Similar to other engineering disciplines, industrial engineering is concerned with solving problems through the application of mathematics, science and computer technologies, as well as the principles of engineering. Specific areas of industrial engineering include engineering design; information engineering and technology; economic analysis; quality engineering and reliability; production and inventory control; mathematical modeling, optimization and computer simulation; and human factors engineering with emphasis on workplace design.



Industrial engineers are needed in virtually all enterprises engaged in product design, comprehensive process planning and scheduling. Graduates from our program are employed in manufacturing industries, health care, engineering consulting firms, financial institutions, transportation companies, government and military agencies and construction firms.

If you would like specific information on salaries and career opportunities, visit the UT Career Services web site at [www.career.utk.edu](http://www.career.utk.edu).

## Department Resources

To enhance its teaching mission, the I&IE department promotes an innovative and exciting approach to industrial engineering education that uses active learning as an alternative to traditional lectures and emphasizes open-ended problem solving, communications skills and task management exercises in a multi-disciplinary and multicultural team environment.

Students can also gain hands-on experience and forge mutually beneficial relationships with industry at many of the department's laboratories and centers such as the Center for Industrial Development Research; the Sports Biomechanics Impact Research Lab; the Computer Integrated Manufacturing Lab; the Human Factors Lab; and the Center for Productivity Innovation.

## Academic Advantages

All UT freshman engineering students are automatically enrolled in the innovative **Engage** Engineering Fundamentals Program. Here you will learn basic engineering concepts and teamwork skills through a series of hands-on projects and activities. » [www.engr.utk.edu/efd](http://www.engr.utk.edu/efd)

The **Office of Professional Practice** offers opportunities for you to gain hands-on experience in business and industry through paid positions and internships. » [www.coop.utk.edu](http://www.coop.utk.edu)

The College of Engineering also participates in the **University Honors Program**, which is designed to give academically outstanding students a unique undergraduate experience consisting of special courses, seminars, mentoring and research projects. » [honors.utk.edu](http://honors.utk.edu)

The **UT Center for International Education** collaborates with the College of Engineering to create opportunities for engineering studies in other countries. » [web.utk.edu/~global](http://web.utk.edu/~global)

## Financial Support

The HOPE Scholarship Program provides financial support to qualified high school students from Tennessee who wish to attend an in-state university. » [www.collegepaystn.com](http://www.collegepaystn.com)

The I&IE department offers a generous undergraduate scholarship program. » [www.engr.utk.edu/ie](http://www.engr.utk.edu/ie)

The college and the university also offer a number of scholarship opportunities. » [web.utk.edu/~finaid](http://web.utk.edu/~finaid) and [www.engr.utk.edu/coe/undergraduate/scholarships.html](http://www.engr.utk.edu/coe/undergraduate/scholarships.html)

The college provides special scholarships and support programs to minority students:

- The **Diversity Engineering Scholarship Program** (DESP) » [www.engr.utk.edu/desp](http://www.engr.utk.edu/desp)
- The **Office of Engineering Diversity Programs** (EDP) » [www.engr.utk.edu/edp](http://www.engr.utk.edu/edp)
- The **Tennessee Louis Stokes Alliance for Minority Participation** (TLSAMP) » [www.engr.utk.edu/tlsamp](http://www.engr.utk.edu/tlsamp)

