

Departmental Information

Department of Chemical and Biomolecular Engineering

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Admissions Information

Application forms are available from:

UT Office of Undergraduate Admissions

320 Student Services Building

Knoxville, TN 37996-0230

Phone: (865) 974-2184

Online: admissions.utk.edu/undergraduate

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.

All qualified applicants will receive equal consideration for employment without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability or covered veteran status.

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THE UNIVERSITY OF
TENNESSEE
KNOXVILLE



DEPARTMENT OF CHEMICAL &
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DEPARTMENT OF CHEMICAL &
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GUIDE FOR PROSPECTIVE STUDENTS

www.engr.utk.edu/cbe

CHEMICAL & BIOMOLECULAR ENGINEERING

A Message from the Department Head

We appreciate your interest in the University of Tennessee's Department of Chemical and Biomolecular Engineering. Our undergraduate program has been continuously accredited by ABET since 1939, making it one of the four oldest accredited chemical engineering programs in the South.

Our goal is to contribute to meeting global challenges in health, environment, energy, security, and economic prosperity by educating students for leadership roles in critical technologies. To accomplish this objective, we have established an unsurpassed teaching and research environment through innovative partnerships with other disciplines at UT, such as medicine, the sciences, and business, as well as nearby industries and the Oak Ridge National Laboratory.

The department, with its diverse student body (32% female and 22% minority) and superb interdisciplinary program, provides the ideal setting to prepare you for a successful career in a global and increasingly technological society. We continuously strive to graduate leaders and innovators, not just highly skilled specialists.

Best wishes for your future,
Dr. Bamin Khomami

*Armour T. Granger and Alvin & Sally Beaman
Distinguished University Professor and Head*



What is Chemical Engineering?

Chemical and biomolecular engineers use their basic understanding of physical, chemical, and biological processes in combination with molecular information and discovery to develop new processes and products that are not only essential in everyday life, but also are critical to the advancement of human health and development and the improvement of environmental conditions.

As a chemical and biomolecular engineering student, you will be trained to:

- Understand the basic principles of science and engineering that provide the foundation for modern chemical and biological technology
- Maintain awareness of environmental safety within the social and economic context of your profession
- Become committed to ethical practice in your profession
- Recognize that lifelong learning is essential for prolonged superior performance in your profession

As a graduate of the chemical engineering program, you will have a broad foundation for career opportunities in many critical technologies, including:

- **Biotechnology**—genetic engineering, pharmaceuticals, medical devices
- **Electronics**—chip manufacture, semiconductors, networking, databases
- **Energy**—petrochemicals, fuel cells, photovoltaic devices
- **Advanced materials**—polymers and textiles, composite materials, ceramics and coatings
- **Food**—agriculture productivity, packaging and preservation, genetic modification
- **Environment**—green processing, aquatic engineering, waste minimization



If you would like specific information on salaries and career opportunities, visit the UT Career Services web site at www.career.utk.edu.

Department Resources

The UT Department of Chemical and Biomolecular Engineering has a highly accomplished and energetic group of professors who have received numerous awards for their contributions to engineering education, including listings in Who's Who in the World of Science and Engineering.

Academic Advantages

All UT freshman engineering students are automatically enrolled in the innovative Engineering Fundamentals Division. Here you will learn basic engineering concepts and teamwork skills through a series of hands-on projects and activities.

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.

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.

www.utk.edu/honors.

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.

