Life After Graduation

Chemical engineers are trained to use chemistry, physics, biology and engineering principles to solve real-world problems.

A degree in chemical engineering opens the door to a wide range of exciting employment and career opportunities in industries such as energy and petrochemicals, biotechnology, pharmaceuticals, health care, biomedical, pulp and paper, specialty chemicals and consumer products, microelectronics, advanced materials and nanotechnology, polymers and environmental health. Because chemical engineering affects many aspects of our day-to-day lives, the job market for chemical engineers is strong and stable.

Nationally, chemical engineers are among the highest paid entry level professions from college campuses. Auburn chemical engineers enjoy high admission rates to medical school, law school and graduate and professional schools. A chemical engineer has occupied the CEO position for ExxonMobil, Chevron, Coca-Cola, Intel, Stryker Medical, 3M, DuPont, General Electric and many others.

The Auburn Advantage

Auburn University has provided instruction, research and outreach to benefit the state and nation for more than 150 years and is among a distinctive group of universities designated as Land, Sea and Space Grant institutions. Auburn makes a nearly $5 billion economic contribution to the state each year, has more than 250,000 graduates and provides 130 degree programs to more than 24,000 graduate and undergraduate students.

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Auburn University is an equal opportunity educational institution/employer.
Welcome to the Department of Chemical Engineering

Most of the products that sustain and improve our lives are produced by carefully designed molecular changes. Chemical engineers develop, design and control processes and products that involve molecular change and the operation of these processes.

From the medicines we take and the fuel that powers our cars to the foods we eat and the environment in which we live, chemical engineering touches every part of our lives. It is a discipline with a unique focus on chemical and biological transformations and the systems in which these transformations occur. Recently, the scope of chemical engineering has been further broadened as discoveries in molecular biology, nanotechnology and alternative energy are adapted for commercial use.

The Department of Chemical Engineering at Auburn University prepares its students to contribute to the technology of the future. Auburn chemical engineers are trained to use chemistry, physics, biology and engineering principles to solve real-world problems, whether they involve energy, medicine, nanotechnology or sustainability.

Undergraduate Curriculum

Bachelor of Chemical Engineering

Auburn’s Department of Chemical Engineering offers a strong background in core chemical engineering areas, including material and energy balances, thermodynamics, chemical equilibria, heat and mass transfer, reaction engineering, separations, dynamics, statistics and control. Real-world design experience is interwoven throughout a modern curriculum that employs advanced computer process simulators and experimental systems.

Chemical engineering students can pursue specializations in the following areas:

- biochemical engineering
- biomedical engineering
- computer-aided chemical engineering
- environmental chemical engineering
- pre-medicine specialization
- pulp, paper and bioresource engineering

Research and Laboratories

The Department of Chemical Engineering provides its students with opportunities to perform research in areas such as advanced energy systems; nanotechnology; sustainable engineering and green chemistry; biomedical engineering, pharmaceuticals and drug delivery systems; intelligent materials for medical applications; and biotechnology and biochemical engineering.

Within our research facilities and laboratory spaces, faculty and students conduct experiments with modern analytical, process and computational equipment. Broad faculty expertise, combined with the department’s focus on education, ensures that students attain a thorough understanding of chemical engineering principles.

The department is affiliated with several Auburn University research centers, including:

- Alabama Center for Paper and Bioresource Engineering
- Center for Microribrous Materials Manufacturing
- Center for Bioenergy and Bioproducts

Extracurricular Opportunities

Auburn Engineering students can participate in a variety of activities beyond the classroom, gaining experience with teamwork and project management. Along with various engineering-focused student competition teams, chemical engineering students are encouraged to participate in campus organizations, such as:

- American Institute of Chemical Engineers
- Society of Women Engineers
- Omega Chi Epsilon honor society
- National Society of Black Engineers
- Technical Association of the Pulp and Paper Industry
- American Chemical Society

For more information, visit www.eng.auburn.edu/organizations

Scholarships

The College of Engineering and the Department of Chemical Engineering offer numerous scholarship opportunities to students at every stage of their academic career. While no application is required for most university and college-wide scholarships, the deadline for chemical engineering departmental scholarship applications is Jan. 15.

For information about these offerings, visit us on the Web at www.eng.auburn.edu/scholarships