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. Chemical engineers develop, design and control processes and products that involve molecular change. Chemical engineering focuses on chemical and biological transformations and the systems in which these transformations occur.

Auburn chemical engineering continues to grow in size and strength, allowing the program to provide distinct opportunities and advantages to its students, who produce innovative research with guidance from outstanding faculty. The department includes:
- 424 undergraduate students and 89 graduate students (81 in the doctoral program) enrolled in fall 2022.
- 26 full-time faculty members
- Ranked by U.S. News and World Report as one of the top 50 “Best Graduate Schools” in chemical engineering
- $27.5 million in Ross Hall and Wilmore Laboratories facility renovations

Graduate study in chemical engineering provides students with opportunities to further their education through advanced courses in their area(s) of interest, and to exercise and sharpen skills developed during their undergraduate education. The graduate curriculum is directed toward creative research with a faculty mentor.

Degree options include:
- Master of Science (M.S.) — master's candidates complete a thesis of depth and creativity, as well as course work to deepen and broaden their technical expertise and acquire knowledge outside of chemical engineering required for their master's thesis research; requires a minimum of 30 credit hours comprised of six three-credit-hour courses, including three core courses and three electives, plus six credit hours of research and thesis.
- Master of Science (M.S.) (non-thesis, online degree) — non-thesis master's degree offered through the college's Graduate Outreach Program; courses are provided via streaming media with arrangements for examinations with test proctors; flexible course of study allows students to individually tailor a plan that meets their background and professional interests; requires 10 graded courses (30 credit hours), including three core chemical engineering courses and four electives, plus three engineering, business or science graduate courses.
- Doctor of Philosophy (Ph.D.) — doctoral candidates complete a research dissertation in chemical engineering; requires 10 three-credit-hour courses, including four core courses and six electives, plus research and dissertation.
LIFE AFTER GRADUATION

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 professionals. A chemical engineer has occupied the CEO position for ExxonMobil, Chevron, Coca-Cola, Intel, Stryker Medical, 3M, DuPont, General Electric and many others. Auburn chemical engineers enjoy high admission rates to medical school, law school and graduate and professional schools.

SCHOLARSHIPS

The College of Engineering and the Department of Chemical Engineering provide scholarship opportunities to students at every stage of their academic career. To be eligible for scholarships at Auburn University, all students must apply through AUSOM.

For information about engineering scholarships, visit www.eng.auburn.edu/scholarships

RESEARCH, LABORATORIES AND CENTERS

The Department of Chemical Engineering provides opportunities to perform research in areas such as:
- advanced energy systems
- biomedical engineering, pharmaceauticals and drug delivery systems
- biotechnology and biochemical engineering
- intelligent materials for medical applications
- nanotechnology
- process systems engineering
- sustainable engineering and green chemistry

The department is affiliated with several Auburn University research centers, including:
- Alabama Center for Paper and Bioresource Engineering
- Center for Bioenergy and Bioproducts
- Center for Microfibrous Materials Manufacturing
- Center for Polymer and Advanced Composites

TEAMS AND ORGANIZATIONS

Chemical engineering students are encouraged to participate in campus organizations, gaining experience with teamwork and project management, such as:
- American Chemical Society
- American Institute of Chemical Engineers (chemical car team, paper and poster competitions)
- Biomedical Engineering Society
- Omega Chi Epsilon national chemical engineering honor society
- Technical Association of the Pulp and Paper Industry

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

CONTACT US

Mario Eden, Department Chair
Jennifer Harris, Academic Advisor
212 Ross Hall
Auburn, AL 36849
334.844.4827
harrijm@auburn.edu
www.eng.auburn.edu/chen

Laura Kinkaid, Academic Advisor
216 Ross Hall
Auburn, AL 36849
334.844.4859
snydelj@auburn.edu
www.eng.auburn.edu/chen

Office of Engineering Student Services
1161 Brown-Kopel Center
Auburn, AL 36849
334.844.4310
engineering@auburn.edu
www.eng.auburn.edu/ess

Auburn University is an equal opportunity educational institution/employer.
ENF1409WE1