EXPLORE

Chemical Engineering

PennState
College of Engineering

Penn State's chemical engineering program is recognized as one of the largest and most influential in the nation.

Our curriculum starts with a foundation in mathematics, chemistry, biology, and physics, then builds experience and expertise in chemical process design to prepare students to solve critical global problems.

Experiential learning and elective courses allow our students to explore critical issues involving food, energy, pharmaceuticals, and environmental sustainability.

Housed in the Chemical and Biomedical Engineering Building at Penn State University Park, our department offers state-of-the-art classrooms, lecture halls, computer labs, student collaboration spaces, laboratory suites, and the Dow Chemical Knowledge Commons.

We provide the courses and experiences to prepare you to make your real-world impact after graduating. We offer research courses, summer research fellowships, study abroad programs, and flexibility to pursue minors in math, sciences, leadership, entrepreneurship, and other engineering technologies. Industrial internships and cooperative learning experiences provide our students with practical experience as they explore their career options.

For more information about the Department of Chemical Engineering at Penn State, visit che.psu.edu.

CHE Hear from students and alumni by watching the Exposure to Major video series: bit.ly/PennStateEngineering

100 YEARS Chemical Engineering

100 Years of Excellence in Chemical Engineering

Our department has been welcoming undergraduate students into the program for more than 100 years.

We Are ...

One of the largest and most influential chemical engineering departments in the United States.

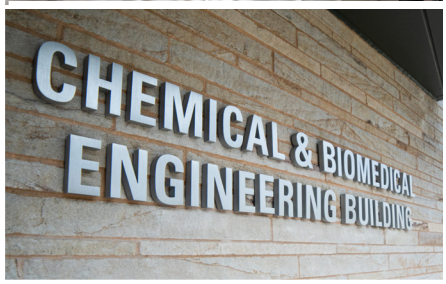
Graduate Program

Our highly ranked doctoral program provides state-of-the-art research opportunities.

AVERAGE ENTRY-LEVEL SALARY OF CHEMICAL ENGINEERING GRADUATES

$78,988

bit.ly/engr-salaries



What is a chemical engineer?

Chemistry is the core science behind chemical engineering, and chemical engineers build on that science to engineer technology and processes. Bench-top operations are translated to industrial-scale production that is safe, efficient, and profitable. Chemical engineers work in application areas including alternative fuels, health care, manufacturing, sustainability, biotechnology, food processing, advanced materials, and more. They work in small businesses, Fortune 500 companies, government, and nonprofits. Every year, we send graduates on to the top doctoral programs in the country.

Examples of career opportunities: Chemical process engineer; research scientist; manufacturing engineer; materials engineer; mining engineer; production manager; sustainable systems engineer; product development manager

Kelly Weike

"Penn State Chemical Engineering transformed me into an effective problem-solver in the classroom and in the real world."

che.psu.edu