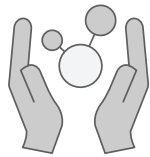




SNAPSHOT

DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING

2022 v1



Our undergraduate students get hands-on experience, working closely with graduate students, postdoctoral researchers, and faculty mentors on laboratory, computational, or theoretical research projects. In our rigorous capstone course, seniors perform experiments and run pilot-scale industrial equipment in labs at UW-Madison or at partner institutions overseas.



Graduate students can participate in numerous training programs in interdisciplinary research, teaching, mentorship, and entrepreneurship. 5 current PhD students have received prestigious National Science Foundation graduate research fellowships.



Our faculty are leaders or members of 9 interdisciplinary research centers and institutes at UW-Madison. Faculty and students have founded 4 startup companies focused on recycling and sustainability.



Founded in 1905, **the department is among the top chemical engineering departments in the nation**. Faculty have written numerous foundational textbooks, including the first textbook on transport phenomena.



Our faculty are consistently recognized with awards, including 12 National Science Foundation early-career awards, 8 from the American Institute of Chemical Engineers or American Chemical Society, and 2 Presidential Early Career Awards.

STUDENT ENROLLMENT

590
UNDERGRADUATE

123
GRADUATE

DEGREES CONFERRED

110
UNDERGRADUATE

20
GRADUATE

NATIONAL PUBLIC RANKING according to U.S. News & World Report

7th
UNDERGRADUATE

8th
GRADUATE

DEGREES OFFERED

BS

Chemical Engineering

PhD

Chemical Engineering

STARTING SALARIES AND PLACEMENT*

\$69,000+
UNDERGRADUATE

\$96,000+
GRADUATE

95%
PLACEMENT

Undergraduates placed in a job or post-graduate studies within a year of graduation

*approximate per year

\$13m+

AVERAGE ANNUAL RESEARCH FUNDING

ACCOMPLISHED FACULTY

75%

Faculty who have received Early Career/Young Investigator Awards

75%

Faculty who have received endowed professorships

RESEARCH AREAS

BIOENGINEERING

- Synthetic Biology
- Protein Engineering
- Systems Biology
- Biocatalysis
- Biomanufacturing

CATALYSIS

- Biomass Conversion
- Chemical Upcycling of Plastic Waste
- Electrocatalysis
- Microkinetic Modeling

MATERIALS

- Synthetic & Bio-inspired Soft Materials
- Soft Robotics & 3D/4D Printing
- Drug Delivery
- Liquid Crystals

THEORY & COMPUTATION

- Computational Fluid Dynamics
- Density Function Theory
- Molecular Dynamics Simulation
- Machine Learning and Data Science
- Systems Engineering

DEPARTMENT CHAIR



Eric V. Shusta

Howard Curler Distinguished Professor and R. Byron Bird Department Chair

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