



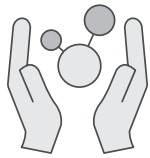
College of Engineering  
UNIVERSITY OF WISCONSIN-MADISON

# SNAPSHOT

2023 v3

## DEPARTMENT OF CHEMICAL & BIOLOGICAL ENGINEERING

### TOP THINGS TO KNOW



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. 6 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.



Our faculty are consistently recognized with awards: 12 have received National Science Foundation early-career awards, 12 have received awards from the American Institute of Chemical Engineers or American Chemical Society, and 3 have received Presidential Early Career Awards.

# 12<sup>th</sup>

Our graduate program ranks 12th overall among both private and public universities. Founded in 1905, the department is among the top chemical engineering departments in the nation.

#### STUDENT ENROLLMENT

**425**  
UNDERGRADUATE

**125**  
GRADUATE

#### DEGREES CONFERRED

**110**  
UNDERGRADUATE

**45**  
GRADUATE

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

**7<sup>th</sup>**  
UNDERGRADUATE

**8<sup>th</sup>**  
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

**79%**

Faculty who have received  
Early Career/Young  
Investigator Awards

**84%**

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 Functional 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  
(608) 262-1092  
eshusta@wisc.edu



Visit us on the web.



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