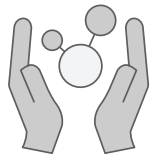




# SNAPSHOT

## DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING

2022 v2



**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.



**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.

# 12<sup>th</sup>

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

### STUDENT ENROLLMENT

**590**  
UNDERGRADUATE

**123**  
GRADUATE

### DEGREES CONFERRED

**110**  
UNDERGRADUATE

**20**  
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

# 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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