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.

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.

Top Things to Know

<table>
<thead>
<tr>
<th>Student Enrollment</th>
<th>Degrees Conferred</th>
<th>National Public Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>590 Undergraduate</td>
<td>110 Undergraduate</td>
<td>7th Undergraduate</td>
</tr>
<tr>
<td>123 Graduate</td>
<td>20 Graduate</td>
<td>8th Graduate</td>
</tr>
</tbody>
</table>

According to U.S. News & World Report
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

DEGREES OFFERED

**BS**
Chemical Engineering

**PhD**
Chemical Engineering

STARTING SALARIES AND PLACEMENT*

$69,000+
UNDERGRADUATE

$96,000+
GRADUATE

75%
Faculty who have received Early Career/Young Investigator Awards

75%
Faculty who have received endowed professorships

ACCOMPLISHED FACULTY

$13m+
AVERAGE ANNUAL RESEARCH FUNDING

DEPARTMENT CHAIR

Eric V. Shusta
Howard Curler Distinguished Professor and R. Byron Bird Department Chair
(608) 262-1092
eshusta@wisc.edu

PLACEMENT

95%
Undergraduates placed in a job or post-graduate studies within a year of graduation

STARTING SALARIES AND PLACEMENT*

*$approximate per year

UNDERGRADUATE
$69,000+

GRADUATE
$96,000+

95%
Placement

Department of Chemical and Biological Engineering
UNIVERSITY OF WISCONSIN-MADISON