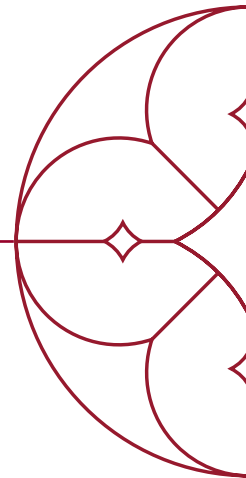




# SCHOOL OF SUSTAINABLE CHEMICAL, BIOLOGICAL AND MATERIALS ENGINEERING



Today's society demands innovation in energy, healthcare, manufacturing, materials, air quality, water purity, and food production. Chemical engineers are at the forefront of developing novel technologies to tackle these challenges—from molecular simulations to producing hydrogen and growing nanotubes in a lab to industry-scale solutions and every step in between. At OU, our research teams are publishing papers and securing patents to lead the way in all of these areas. Our professors are world-renowned, and our alumni are found around the globe.

## BY THE NUMBERS

**\$77,500**

Average starting salary for  
SCBME graduates in industry

**10:1**

Student to Faculty Ratio

**\$3.5 Million**

Endowment for student  
scholarships

## MAJORS

Chemical Engineering  
Chemical Engineering: Bioengineering  
Chemical Engineering: Pre-Medical  
Chemical Engineering: Sustainability

### Accelerated (5-year) Dual Degree Programs

B.S./M.S. Chemical Engineering

### Certificate

Bioprocessing

### Online M.S. Program

Sustainability: Energy & Materials  
Management

## CONTACT US

(405) 325-5811  
Sarkeys Energy Center, Rm. T-301  
[www.ou.edu/coe/scbme](http://www.ou.edu/coe/scbme)  
For general questions:  
[goengineering@ou.edu](mailto:goengineering@ou.edu)



Dr. Ed O'Rear and his student researchers investigate how blood moves through artificial heart valves and around stents.

“I entered SCBME at OU with plans of just earning my undergraduate degree. The passion displayed by the professors, the potential for real-world applications and the feeling that I'm making a difference prompted me to pursue a Ph.D. at OU too. Studying chemical engineering at OU is the best decision I've ever made.”

— Caleb Bavlnka, Chemical Engineering,  
Current PhD student, B.S. Class of 2021



## THINGS TO KNOW

**1** Chemical Engineering is a dynamic discipline driving change in all engineering fields, especially through rapid developments in bioengineering, nanotechnology, energy, and sustainability.

**2** Graduates are largely responsible to produce energy, the purification of water and air, and the development of products involving chemical reactions from either waste materials or raw materials found in our land and oceans.

**3** Chemical engineers work in manufacturing, electronic and advanced materials, energy production, pharmaceuticals, healthcare, design of industrial plants, pulp and paper, petrochemicals, food processing, specialty chemicals, microelectronics, polymers, business services, biotechnology, and environmental health and safety industries, among others.



Liquid nitrogen ice cream made by ChevronPhillips mentors.

## SELECT COURSES

Reaction Engineering  
Separation Processes  
Chemical Engineering Thermodynamics  
Process Dynamics and Control  
Transport Phenomena  
Structures & Properties of Materials

## SCBME STUDENT ORGANIZATIONS

American Institute of Chemical Engineers (AIChE)  
Society of Plastic Engineers (SPE)  
Chem-E Car Team  
+ over 60 engineering student organizations

## CAREER PATHS

**DOW** Houston, TX  
*Materials Coordinator*

**PepsiCo** Plano, TX  
*Supply Chain Analyst*

**ThermalTech Engineering** Cincinnati, OH  
*Design/Analysis - Controls Engineer*

**Samsung Austin Semiconductor** Austin, TX  
*CORP Engineer*

**Valero Energy Corporation** Benicia, CA  
*Environmental Engineer*



Graduating class of 2025.