

What to do with a degree in...

# CHEMICAL ENGINEERING

A degree in Engineering, Architecture or Technology provides the knowledge and tools for problem solving. Be aware that the actual work that engineers perform will vary depending on the company and industry in which they work. Some engineers work in a research or development capacity, while others serve in management roles. The work environment

also varies, including outdoor work, work in an office setting, or a combination. Students completing the degree program will have a strong background in mathematics, science, and engineering, an understanding of professional and ethical responsibilities, and the ability to communicate effectively.

## SKILLS

Graduates of the Chemical Engineering program are able to apply the principles of chemical thermodynamics, material transport, reaction kinetics, and system controls to various chemical

processes. This largely includes the oil and gas industry processes along with Pre-Medical School, Biomedical, Biochemical, and Petroleum Minor Options.

## CAREER PATHS

ASSET ENGINEER  
ASSOCIATE ENVIRONMENTAL ENGINEER  
CHEMICAL PROCESS ENGINEER  
COMBUSTION ENGINEER  
CONSULTANT  
CONTROLS SYSTEM ENGINEER  
DIGITAL TRANSFORMATION ADVISOR  
ENGINEER  
EXPLORATION PRODUCTION ENGINEER  
FIELD ENGINEER  
MIDSTREAM ENGINEER

PIPELINE ENGINEER  
PROCESS ENGINEER  
PRODUCTION ENGINEER  
R&D ENGINEER  
SAFETY ENGINEER  
SALES/APPLICATIONS ENGINEER  
SUPPLY CHAIN LEADER  
SYSTEMS ENGINEER

## WHO HIRES CHEMICAL ENGINEERING MAJORS

ABB Inc.  
Ascent Resources  
Burns & McDonnell  
Chesapeake Energy Corp.  
ConocoPhillips  
ExxonMobil  
Georgia-Pacific  
Halliburton

International Paper  
ONEOK  
Phillips 66  
Pepsico  
Valero Energy  
XTO Energy  
Zeeco, Inc.



## STARTING AVERAGE SALARIES

(DATA GATHERED FROM  
OSU CEAT GRADUATES)

2017 - \$75,000

2018 - \$74,400

2019 - \$80,275

## **TIPS FOR SUCCESS IN CHEMICAL ENGINEERING**

- Obtain a co-op or internship experience as an opportunity to discover career interests and to serve as a great resume builder.
- Collaborate with local partners to design and implement sustainable engineering projects through study abroad opportunities or Engineers Without Borders.

## **GET INVOLVED ON CAMPUS**

American Institute of Chemical Engineers (AIChE)

OSU Automation Society (OSUAS)

Society of Petroleum Engineers (SPE)

Additional Resources About Chemical Engineering Careers:

[che.okstate.edu](http://che.okstate.edu)

[aiche.okstate.edu](http://aiche.okstate.edu)

[osuas.okstate.edu](http://osuas.okstate.edu)

## **MARKETABLE SKILLS OF CHEMICAL ENGINEERING GRADUATES**

- Perform mass/energy balances on a system
- Determine safety and risk associated with a chemical process
- Perform preliminary and detailed designs of chemical systems
- Communicate effectively and professionally on technical topics



For More Information About  
Biosystems at OSU:

Prospective Student Services:  
(405) 744-5276

Career Services:  
(405) 744-3858

[HireOSUGrads.com](http://HireOSUGrads.com)