

# 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.

## CAREER PATHS IN CHEMICAL ENGINEERING

- Exploration & Production Engineer
- Field Engineer
- Process Engineer
- Production Engineer
- Engineer I
- Combustion Engineer
- Consultant
- Controls System Engineer
- Pipeline Engineer
- Asset Engineer
- Sales/Applications Engineer
- Safety Engineer

## WHO HIRES CHEMICAL ENGINEERING MAJORS

- Halliburton
- ONEOK
- ConocoPhillips
- Chesapeake Energy Corp.
- Georgia-Pacific
- Zeeco, Inc.
- Quorum Business Solutions

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## CHEMICAL ENGINEERING

Graduates from the School of Chemical Engineering at Oklahoma State University are able to apply the principals of chemical thermodynamics, material transport, reaction kinetics, and system controls to various chemical processes.

## TIPS ON CHEMICAL ENGINEERING

- OSU Chemical Engineering Students are among the highest performing at the university. With 2 of the 15 Outstanding Seniors of the 2015 OSU Graduating Class coming from Chemical Engineering.
- The American Institute of Chemical Engineers (AIChE) has a very active student chapter on campus. This organization provides monthly employer speaker meetings to give ChemE students exposure to different career pathways.
- On average about half of OSU ChemE students take the Fundamentals of Engineering (FE) exam, and about 90% pass. The FE is the first step to getting a professional engineering licensure. For the vast majority of ChemE careers it is not required that the student be a professional engineer.

FOR MORE INFORMATION ABOUT  
CHEMICAL ENGINEERING AT OSU

**Prospective Student Services:**  
(405) 744-5276

**Career Services:**  
(405) 744-3858

## ADDITIONAL RESOURCES ABOUT CHEMICAL ENGINEERING CAREERS

Chemical Engineering at OSU:  
<http://www.cheng.okstate.edu>  
American Institute of Chemical  
Engineers OSU Chapter:  
<http://www.aiche.okstate.edu>  
American Institute of Chemical  
Engineers:  
<http://www.aiche.com>

## STARTING AVERAGE SALARIES

(Data gathered from OSU CEAT graduates)

**2013—\$74,000**

**2014—\$80,082**

**2015—\$78,588**

## 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