



What can I do with my Major?

CHEMICAL ENGINEERING

SAMPLE JOB TITLES

Visit [O*Net](#) and conduct an Occupation Quick Search of each job title to learn more about that career path.

[Chemical Engineer](#)
[Engineering Teacher, Postsecondary](#)
[Chemical Technician](#)
[Biochemical Engineer](#)
[Environmental Scientist](#)
[Quality Control Specialist](#)
[Technical Salesperson](#)
[Computer Programming Engineer](#)
[Technology Scientist](#)
[Process Development Engineer](#)
[Consultant](#)
[Process Engineer](#)

UCONN RESOURCES

[Department of Chemical, Materials, and Biomolecular Engineering](#)
[American Institute of Chemical Engineers](#)
[Omega Chi Epsilon](#)
[Engineering Student Leadership Council](#)
[Tau Beta Pi](#)
[Society of Hispanic Professional Engineers](#)
[National Society of Black Engineers](#)
[Women in Math, Science and Engineering](#)
[Society of Women Engineers](#)

OTHER RESOURCES

[American Institute of Chemical Engineers](#)
[Chemical and Engineering News](#)

OVERVIEW OF MAJOR

Chemical engineers differ from other engineers in that they draw upon the vast and powerful science of chemistry to solve a wide range of problems. The knowledge and duties of chemical engineers cut across many fields; they apply principles of chemistry, physics, mathematics, and mechanical and electrical engineering in their work. Chemical engineers are very versatile and are able to handle a large variety of technical problems. There is a large amount of scientific and technical knowledge inherent in this profession.

NATURE OF WORK

On a day-to-day basis the chemical engineer is asked to solve problems involving the production or use of chemicals. They design equipment and develop processes for large-scale chemical manufacturing; plan and test methods of manufacturing the products and treating the by-products; and supervise production. The setting is more often than not in a company, research institute, lab, or occasionally outdoors.

Chemical engineers are increasingly using computer technology to optimize all phases of research and production; therefore they need to understand how to apply computer skills to process analysis, automated control systems, and statistical quality control.

