

A.S. DEGREE IN CHEMICAL ENGINEERING

For a description of the Chemical Engineering Program, see link below.

<http://www.hostos.cuny.edu/Administrative-Offices/Office-of-Academic-Affairs/Dual-Degree-Program/Engineering-Programs/CHEMICAL-ENGINEERING>

For more information, see link below.

<http://www.hostos.cuny.edu/Hostos/media/Pathways/Chemical-Engineering-AS.pdf>

SKILLS

Analytical skills. Chemical engineers must troubleshoot designs that do not work as planned. They must ask the right questions and then find answers that work.

Creativity. Chemical engineers must explore new ways of applying engineering principles. They work to invent new materials, advanced manufacturing techniques, and new applications in chemical and biomedical engineering.

Ingenuity. Chemical engineers learn the broad concepts of chemical engineering, but their work requires them to apply those concepts to specific production problems.

Interpersonal skills. Because their role is to put scientific principles into practice in manufacturing industries, chemical engineers must develop good working relationships with other workers involved in production processes.

Math skills. Chemical engineers use the principles of advanced math topics such as calculus for analysis, design, and troubleshooting in their work.

Problem-solving skills. In designing equipment and processes for manufacturing, these engineers must be able to anticipate and identify problems, including such issues as workers' safety and problems related to manufacturing and environmental protection.

PAY

\$49,260 in May 2019

The median annual wage for chemical technicians was \$49,260 in May 2019.

SAMPLE JOB TITLES

Associate's Degree: Chemical Technician, and Environmental Science and Protection Technician

Bachelor's Degree: Biological Technician, Chemical Engineer, [and Chemist](#)

Job Outlook

2% Growth

Employment of chemical technicians is projected to grow 2 percent from 2018 to 2028, slower than the average for all occupations.

Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook*, Chemical Technicians, on the Internet at <https://www.bls.gov/ooh/life-physical-and-social-science/chemical-technicians.htm> (visited August 14, 2020).

RESOURCES

<https://www.bls.gov/ooh/>

<http://hostos.cuny.edu/Administrative-Offices/Career-Services-Office>

<https://access.vault.com/career-insider-login.aspx?aid=148711>

<https://hostos-csm.symplicity.com/>