

BACHELORS CHEMICAL ENGINEERING

TOP INDUSTRIES

1. Chemicals
2. Healthcare
3. Personal & Household Goods
4. Food & Beverage
5. Automobiles & Parts

SAMPLE JOB TITLES

- Associate Engineer
- Business Analyst
- Chemical Engineer
- Manufacturing Engineer
- Process Engineer
- Product Development Engineer
- Production Engineer
- Project Engineer
- R&D Scientist
- Supply Chain Manager
- Sustainable Packaging Engineer
- Technical Sales Associate

TOP HIRING COMPANIES



SAMPLE HIRING COMPANIES

- Alcon
- Archer Daniels Midland
- BAE Systems
- Baystar
- BD - Becton Dickinson
- Billerud
- Boston Scientific
- BP
- Capital One
- Carbon Solutions
- Catalent Pharma
- Constellation
- Contemporary Amperex
- Eli Lilly
- Evonik
- Ford Motor Company
- Formosa Plastic
- General Mills
- General Motors
- GHD
- Gingko Bioworks
- H.B. Fuller
- Harmonic Discovery
- Henkel
- IMRA America
- INEOS
- J.M. Miller Engineering
- Janssen
- Kellogg
- Kimberly-Clark
- KraftHeinz
- L&L Products
- Lear Corporation
- LG Energy
- Mars Wrigley
- Michaels Energy
- Molson Coors
- Nalco Water
- Nanograf
- Nona Biosciences
- Northrop Grumman
- NOVI Energy
- PepsiCo
- Pfizer
- Plastic Omnium
- Reckitt Benckiser
- Samsung
- SC Johnson
- SpaceX
- Stellantis
- Tesla
- Texas Instruments - TI
- Valero Energy
- Williams International

FULL TIME STARTING ANNUAL SALARY

Average: \$80,765

Min
\$30,720

Median
\$82,000

Max
\$112,000

INTERN HOURLY SALARY

Average: \$25.37

Min
\$16

Median
\$25

Max
\$35

Data above are from Academic Year (AY) 2023.
Visit career.engin.umich.edu/career/salary-info for more comprehensive data.

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SAMPLE ELEVATOR PITCH

Hi, my name is [NAME] and I'm a current [YEAR] studying Chemical Engineering here at the University of Michigan. On campus, I'm involved in several clubs and am also a peer advisor for the Engineering Career Resource Center.

In the past, I worked at Fancy Chemicals Co. where I performed research on industrial lubricants and had the opportunity to develop new lubricants for usage in the auto industry. Additionally, I have been deeply interested in the food industry ever since I took the food science section of our freshman engineering design course, where I helped to adjust the formulation of puppy chow to allow for new flavors and easier pipe flow in a manufacturing setting.

I believe my past experience has given me a strong foundation for work in food manufacturing. I am really interested in your product manufacturing internship opportunity; can you tell me more about it?

SAMPLE IMPACT STATEMENT

Before - Performed analysis to determine differences within different batches of defoamer fluids utilized within various lab tests

After - Developed and implemented experiments to determine product variance between batches of industrial defoamer fluids to ensure consistency of product internally and assess effectiveness against competitor's product

KEY COURSES

ENGR 100 - Project based course for first year engineering students. ChemE related sections could include Food Science or Green Engineering, but any section can be beneficial to the resume.

CHE 360 - Lab 1; focuses on statistics, operation of basic equipment, and tech communications

CHE 460 - Lab 2; focuses on more complex lab equipment, separations processes & experiment procedure

Special Topics - Can range from polymers to distillation of spirits, good way to specialize your skills

KEY SKILLS

Aspen - Software allowing for process and plant design and simulation (winter sophomore year)

Safety Analysis - Safety is essential and applicable in any field (almost every class has a safety module)

Economic/Environmental Analysis - Knowing the overall impact of a process is crucial for effective development

SAMPLE EXTRACURRICULARS

American Institute for Chemical Engineers (AIChE)

Food Industry Student Assoc (FISA)

American Chemical Society Polymer Division

Alpha Chi Sigma - Professional Chem Fraternity

Omega Chi Epsilon - Honors Society

Design Teams - ChE Car, MCCT, MPEDD

