WHAT CAN I DO WITH MY

CHEMICAL / BIOCHEMICAL ENGINEERING



DEGREE?

Using the Major Sheet:

- Large headings indicate industry area and subheadings indicate employers within that area.
- Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
- An asterisk (*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

CHEMICAL/BIOCHEMICAL ENGINEERING (Chemical, Cosmetics,

Pharmaceutical, Agricultural Chemical, Food Processors, Government, Petroleum, Plastics, Fuel, Paper/Pulp)

Research & Development (Universities, Research Institutes, Industry)

- Development Engineer
- · Asst. Research Engineer
- Chemical Engineer

- Petroleum Research Engineer
- Consumer Product R&D Designer

Design and Construction (Chemical Manufacturers)

- Project Engineer
- Asst. Design Engineer
- Process Engineer
- Designer Draftsperson
- Field Engineer
- Process Design Engineer
- Product Designer
- CAD Technician

- Automation Engineer Chemical Engineer
- Test Technician

Operations / Production (Manufacturers)

- Business Coordinator
- Project Engineer
- Quality Assurance Engineer
- Reliability Engineer
- Manufacturing Engineer
- Production Engineer
- Production Planner
- Quality Control Technician
- Materials Manager
- Supplier Quality Engineer
- Chemical Engineer
- Production Manager
- Field Technician
- First Line Supervisor

Environment and Waste Management (Chemical Companies, Government)

- Environmental Specialist
- Environmental Control Engineer
- Environmental Protection Officer
- Solid/Hazardous Waste Manager
- Environmental Engineer
- Chemical Engineer
- Environmental Risk Assessor

Waste Water Treatment Engineer

- Safety Officer
- Project Engineer
- Process Engineer

ENGINEERING-RELATED

Government

- Project Engineer
- Peace Corps Volunteer

Human Resources

- Technical Recruiter
- Sales / Marketing
- Sales Engineer High Tech Marketing Specialist
- Applications Engineer

Publishing

Technical Writer

- Chemical Engineer
- Patent Reviewer
- High Tech Head Hunter
- Technical Sales Rep.

Product Engineer

- Market Research Analyst
- Assistant Textbook Editor

- CIA Engineer
- Mechanical Engineer
- Trade Show Organizer
- Product Manager

OPERATIONS RESEARCH / MODELING

Consulting Firms, Large Corporations, Government, Research Organizations

 Research Assistant Analyst Assistant Market Forecaster

MANUFACTURING - PURCHASING & MATERIALS MGT.

Operations Research Analyst

Inventory Manager

• Assistant Quality Assurance Manager • Purchasing Agent

Industrial/Wholesale Buyer

Assistant Buver

Line Supervisor

Purchasing Price Analyst

Traffic Manager

Production Manager

Contract Agent

Cost Estimator

BANKING / REAL ESTATE / INSURANCE / FINANCE

Assistant Loan Officer

Operations Manager

Mortgage Banker/Officer

Claims Adjudicator

Claims Rep / Examiner

Commodity Broker

Mortgage Broker

Systems Consultant

• Real Estate Analyst/Broker

• Insurance Broker

Securities Analyst

· Credit Analyst

Appraiser

Underwriter

Insurance Agent

Financial Analyst

Preparation for a Competitive Job Market:

- Focus on transferable skill sets as you pursue a degree in Chemical/Biochemical Engineering.
- Obtain relevant internship, co-op, or volunteer experiences.
- Supplement Chemical/Biochemical Engineering coursework with classes relevant to your career.
- Meet with a Career Specialist to explore options, make decisions, and prepare for career choices.

Additional Career Center Resources:

- Major Sheets (ENCH, BIOC, BTEC, CHEM, GEOG): https://careers.umbc.edu/tools/majors/
- The Vault: https://careers2.umbc.edu/tools/vault/
 - Use the top search bar to find these relevant guides:

"Vault Guide to Engineering Jobs"

"Vault Guide to Chemistry Jobs"

"Vault Guide to Nuclear Power Jobs"

"Vault Guide to Mathematics and Physics Jobs"

"Vault Guide to Waste Management Jobs"

"Vault Guide to Energy Jobs"

"Vault Guide to Plastics Industry Jobs"

"Vault Guide to Chemicals Industry Jobs"

"Vault Guide to Medical Equipment Manufacturing Jobs"

"Vault Guide to Rubber Industry Jobs"

Professional Associations:

American Institute of Chemical Engineers: http://www.aiche.org/ National Society of Professional Engineers: http://www.nspe.org/

National Society of Black Engineers: www.nsbe.org

Society of Women Engineers: http://societyofwomenengineers.swe.org/ American Chemical Society: http://www.acs.org/content/acs/en.html