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)

<table>
<thead>
<tr>
<th>Research &amp; Development (Universities, Research Institutes, Industry)</th>
<th>Design and Construction (Chemical Manufacturers)</th>
<th>Operations / Production (Manufacturers)</th>
<th>Environment and Waste Management (Chemical Companies, Government)</th>
<th>ENGINEERING-RELATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development Engineer</td>
<td>Project Engineer</td>
<td>Business Coordinator</td>
<td>Environmental Specialist</td>
<td></td>
</tr>
<tr>
<td>Petroleum Research Engineer</td>
<td>Asst. Design Engineer</td>
<td>Project Engineer</td>
<td>Environmental Control Engineer</td>
<td></td>
</tr>
<tr>
<td>Asst. Research Engineer</td>
<td>Field Engineer</td>
<td>Quality Assurance Engineer</td>
<td>Environmental Protection Officer</td>
<td></td>
</tr>
<tr>
<td>Consumer Product R&amp;D Designer</td>
<td>Process Design Engineer</td>
<td>Quality Control Technician</td>
<td>Solid/Hazardous Waste Manager</td>
<td></td>
</tr>
<tr>
<td>Chemical Engineer</td>
<td>Product Designer</td>
<td>Materials Manager</td>
<td>Waste Water Treatment Engineer</td>
<td></td>
</tr>
</tbody>
</table>

### ENGINEERING-RELATED

<table>
<thead>
<tr>
<th>Government</th>
<th>Human Resources</th>
<th>Sales / Marketing</th>
<th>Publishing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Engineer</td>
<td>Technical Recruiter</td>
<td>Technical Writer</td>
<td>Chemical Engineer</td>
</tr>
<tr>
<td>Peace Corps Volunteer</td>
<td>High Tech Head Hunter</td>
<td></td>
<td>Patent Reviewer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Assistant Textbook Editor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trade Show Organizer</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Product Manager</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Engineer</th>
<th>CIA Engineer</th>
<th>Mechanical Engineer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Engineer</td>
<td>Trade Show Organizer</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Product Manager</td>
<td></td>
</tr>
</tbody>
</table>
OPERATIONS RESEARCH / MODELING
Consulting Firms, Large Corporations, Government, Research Organizations
• Research Assistant  • Analyst Assistant  • Market Forecaster

MANUFACTURING - PURCHASING & MATERIALS MGT.
• Operations Research Analyst  • Assistant Buyer  • Traffic Manager
• Inventory Manager  • Line Supervisor  • Production Manager
• Assistant Quality Assurance Manager  • Purchasing Agent  • Contract Agent
• Industrial/Wholesale Buyer  • Purchasing Price Analyst  • Cost Estimator

BANKING / REAL ESTATE / INSURANCE / FINANCE
• Assistant Loan Officer  • Mortgage Broker  • Credit Analyst
• Operations Manager  • Systems Consultant  • Appraiser
• Mortgage Banker/Officer  • Real Estate Analyst/Broker  • Underwriter
• Claims Adjudicator  • Insurance Broker  • Insurance Agent
• Claims Rep / Examiner  • Securities Analyst  • Financial Analyst
• Commodity Broker

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): http://careers.umbc.edu/tools.major-sheets/
• Links by Major: http://careers2.umbc.edu/tools/links.php
• Vault: http://careers.umbc.edu/students/discover/explore-careers-majors/
-Click on Vault Career Insider portal link and provide UMBC user ID and password
-Select “Guides” to view relevant guides such as:
  “Vault Guide to Engineering Jobs”
  “Vault Guide to Chemistry Jobs”
  “Career Launcher: Manufacturing”
  “Vault Guide to Government Agency Careers”
• 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

UMBC Career Center, MP 201, 410-455-2216, careers@umbc.edu, careers.umbc.edu