WHAT CAN I DO WITH MY 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

**Relevant Industries**
- Chemical Industry
- Agricultural Chemical
- Petroleum/Fuel

**Research & Development (Universities, Research Institutes, Industry)**
- Development Engineer
- Chemical Engineer

**Design and Construction (Chemical Manufacturers)**
- Project Engineer
- Asst. Design Engineer
- Process Engineer
- Designer Draftsperson

**Operations / Production (Manufacturers)**
- Business Coordinator
- Project Engineer
- Field Technician
- Reliability Engineer
- Manufacturing Engineer

**Environment and Waste Management (Chemical Companies, Government)**
- Environmental Specialist
- Environmental Control Engineer
- Environmental Protection Officer

### MECHANICAL ENGINEERING

**Relevant Industries**
- Automotive
- Chemical
- HVAC
- Machinery/Tool Manufacturers

**Transportation**
- Transportation Industry Consultant
- Highway Engineer

**Energy**
- Thermal Engineer
- Applications Engineer

**Manufacturing / Production Operations / Maintenance**
- Plant Engineer
- Applications Engineer

**Machines/Mechanical Design**
- Mechanical Technologist
- Mechanical Engineering Technician

**Health**
- Biomechanics Engineer

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**Note:**
- Chemical Industry: Cosmetics, Pharmaceuticals
- Agricultural Chemical: Food Processors, Government
- Petroleum/Fuel: Plastics, Paper/Pulp
- Research & Development (Universities, Research Institutes, Industry): Petroleum Research Engineer
- Design and Construction (Chemical Manufacturers): Automation Engineer
- Operations / Production (Manufacturers): Chemical Engineer
- Environment and Waste Management (Chemical Companies, Government): Safety Officer
OTHER ENGINEERING-RELATED

Government
• Project Engineer  • Chemical Engineer  • Security Engineer
• Peace Corps Volunteer  • Patent Reviewer  • Mechanical Engineer

Human Resources
• Technical Recruiter  • High Tech Head Hunter

Sales / Marketing
• Sales Engineer  • Technical Sales Rep.  • Trade Show Organizer
• High Tech Marketing Specialist  • Product Engineer  • Technical Representative
• Applications Engineer  • Product Manager  • Marketing Research Analyst

Publishing
• Technical Writer  • Editorial Assistant

OPERATIONS RESEARCH / MODELING

Consulting Firms, Large Corporations, Government, Research Organizations
• Research Assistant  • Analyst Assistant  • Market Forecaster

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

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

Preparation for a Competitive Job Market:
• Focus on transferable skill sets as you pursue a degree in Engineering.
• Obtain relevant internship, co-op, or volunteer experiences.
• Supplement 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 (HIST, MLL, POLI, EDUC, MCS): 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:

• Professional Associations:
  American Institute of Chemical Engineers: www.aiche.org
  American Society of Mechanical Engineers: www.asme.org
  National Society for Professional Engineers: www.nspe.org
  National Society of Black Engineers: www.nsbe.org

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

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