

WHAT CAN I DO WITH MY MECHANICAL 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.

MECHANICAL ENGINEERING

Relevant Industries

- Automotive
- Chemical
- Machinery/Tool Manufacturers
- HVAC
- Mining
- Textile Manufacturers
- Utilities
- Engineering Design/Consulting
- Petroleum/Fuel
- Government

Transportation

- Transportation Industry Consultant
- Highway Engineer
- Automotive Engineer
- Transportation Engineer

Energy

- Thermal Engineer
- Applications Engineer
- Solar Engineer
- Energy Specialist

Manufacturing / Production Operations / Maintenance

- Plant Engineer
- Applications Engineer
- Test Engineer
- Process Engineer

Machines/Mechanical Design

- Mechanical Technologist
- Mechanical Engineering Technician
- Mechanical Engineer
- Mechanical Design Engineer
- Mechanical Technician
- Design Engineer

Health

- Biomechanics Engineer
- Sanitary Engineer
- Public Health Engineer

OPERATIONS RESEARCH / MODELING

Consulting Firms, Large Corporations, Government, Research Organizations

- Research Assistant
- Analyst Assistant
- Market Forecaster

MANUFACTURING - PURCHASING & MATERIALS MANAGEMENT

- Operations Research Analyst
- Inventory Manager
- Assistant Quality Assurance Manager
- Industrial/Wholesale Buyer
- Assistant Buyer
- Line Supervisor
- Purchasing Agent
- Purchasing Price Analyst
- Traffic Manager
- Production Manager
- Contract Agent/Manager
- Cost Estimator

OTHER ENGINEERING-RELATED

Government

- Project Engineer
- Peace Corps Volunteer
- Chemical Engineer
- Patent Reviewer
- CIA Engineer
- Mechanical Engineer

Human Resources

- Technical Recruiter
- High Tech Head Hunter

Sales / Marketing

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

Publishing

- Technical Writer
- Editorial Assistant

Preparation for a Competitive Job Market:

- **Focus on transferable skill sets** as you pursue a degree in Mechanical Engineering.
- **Obtain relevant internship, co-op, or volunteer experiences.**
- **Supplement Mechanical 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 (ENME, ENGR, PHYS, ENEL):** <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 Agriculture Jobs"

"Vault Guide to Manufacturing Jobs"

"Vault Guide to Textiles Industry Jobs"

"Vault Guide to Rubber Industry Jobs"

"Vault Guide to Medical Equipment Manufacturing Jobs"

"Vault Guide to Chemicals Industry Jobs"

"Vault Guide to Machining and Machinery Jobs"

"Vault Guide to Metals Industry Jobs"

"Vault Guide to Defense Jobs"

"Vault Guide to Construction Jobs"

- **Professional Associations:**

American Society of Mechanical Engineers: www.asme.org

National Society for Professional Engineers: www.nspe.org

National Society of Black Engineers: www.nsbe.org

American Association of Engineering Societies: www.aaes.org

Society of Women Engineers: www.swe.org

Society of Automotive Engineers: www.sae.org