WHAT CAN I DO WITH A MAJOR IN...

MECHANICAL ENGINEERING

Mechanical engineering deals with the forces and energy at work in thermal and mechanical (solid and fluid) systems. It studies the engineering principles underlying the generation, transmission, and utilization of these energies, and the design, production, and application of mechanical devices and systems. It is one of the broadest of the engineering disciplines, and it utilized in areas such as computer aided design and analysis, fluid and thermal sciences, bioengineering, manufacturing processes and control, and instrumentation.*

*Taken from the College Board Book of Majors and the UNC Charlotte Department of Mechanical Engineering Website

SAMPLE OCCUPATIONS

<table>
<thead>
<tr>
<th>Specialization Areas</th>
<th>Mechanical Engineering</th>
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<tbody>
<tr>
<td>Machine Design</td>
<td>CAD Detailer</td>
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<tr>
<td>Systems Design</td>
<td>Tire Designer</td>
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<tr>
<td>Manufacturing &amp; Production</td>
<td>Transport System Designer</td>
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<tr>
<td>Energy Conversion</td>
<td>Automobile Engineer</td>
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<tr>
<td>Transportation &amp; Environmental Impact</td>
<td>Instrument Specialist</td>
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<td>Materials &amp; Structures</td>
<td>Robotics Designer</td>
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<td>Plastics Fabrication Engineer</td>
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<td>Engineering Technology</td>
<td>Design Inspector</td>
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<td></td>
<td>Quality Engineer</td>
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<td></td>
<td>Materials Handler</td>
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<td>Research Assistant</td>
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TYPES OF EMPLOYERS

Utility Companies
National Laboratories
Department of Energy
Federal Aviation Administration
Automotive Companies
Consulting Firms
Aerospace Companies
Manufacturing Companies
(Chemical Products, Petroleum, Textiles, Industrial Equipment)

PREPARING FOR YOUR CAREER IN

Mechanical Engineering: Build teamwork skills by seeking opportunities to participate in group projects, learn to communicate complex work-related terminology in easy to understand terms, learn computer-aided design (CAD) and computer-aided manufacturing (CAM), seek experience through internships, co-ops, or research, pursue design projects and lab experience, join a student chapter of a professional organization to learn more about the specializa-

RELATED WEBSITES

Discover Engineering  
www.discovere.org

American Society of Mechanical Engineers  
www.asme.org/career-education

Society of Automotive Engineers  
www.sae.org

National Society of Professional Engineers  
www.nspe.org

Sloan Career Cornerstone Center (STEM)  
www.careercornerstone.org

HOW DO I KNOW IF IT’S RIGHT FOR ME?

ASSESS: Take a career assessment, such as the Strong Interest Inventory or MBTI, to see how your interests, values, and personality fit with majors and careers.

RESEARCH: Research the careers on this WCIDWAMI and thousands of other careers using these top career websites:


EXPLORE: Learn more about a career field of interest by job shadowing, attending a career panel, or participating in a Company Trek. Further your exploration while gaining valuable skills by completing an internship, co-op, volunteer, or research experience.

For the expanded version of this WCIDWAMI, visit  
career.uncc.edu/majors/ME