WHAT OPPORTUNITIES ARE AVAILABLE?

Mechanical engineers design, develop, build, and test mechanical and thermal sensors and devices. Specializations can vary from consistently high-demand electrical or mechanical engineering to growing fields such as environmental engineering, nanotechnology, or robotics and automation.

HOW MUCH COULD I EARN?

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Entry</th>
<th>Median</th>
<th>Experienced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineers</td>
<td>$29.46</td>
<td>$46.67</td>
<td>$61.37</td>
</tr>
</tbody>
</table>

RELATED CAREER PATHWAYS

For more information, please visit winintelligence.org/data-research/career-profiles
WHAT EDUCATION & SKILLS WILL I NEED?

Most of the mechanical engineer occupations analyzed here are reported to typically require a Bachelor’s degree for entry at 76% of postings. A further 32% of postings required either a Master’s degree or PhD. This is offset somewhat by lower demands for experience, with 31% of postings identifying three or fewer years of experience as a requirement.

EDUCATION AND EXPERIENCE IN JOB POSTINGS

<table>
<thead>
<tr>
<th>Education Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unspecified</td>
<td>15%</td>
</tr>
<tr>
<td>High school or GED</td>
<td>3%</td>
</tr>
<tr>
<td>Associate’s degree</td>
<td>4%</td>
</tr>
<tr>
<td>Bachelor’s degree</td>
<td>76%</td>
</tr>
<tr>
<td>Master’s degree</td>
<td>27%</td>
</tr>
<tr>
<td>Ph.D. or professional degree</td>
<td>5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Experience</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No experience listed</td>
<td>31%</td>
</tr>
<tr>
<td>0 - 1 Years</td>
<td>7%</td>
</tr>
<tr>
<td>2 - 3 Years</td>
<td>24%</td>
</tr>
<tr>
<td>4 - 6 Years</td>
<td>25%</td>
</tr>
<tr>
<td>7 - 9 Years</td>
<td>7%</td>
</tr>
<tr>
<td>10+ Years</td>
<td>6%</td>
</tr>
</tbody>
</table>

FOR TRAINING OPPORTUNITIES CONTACT YOUR LOCAL COMMUNITY COLLEGE AND MICHIGAN WORKS! AGENCY

WHAT TECHNICAL SKILLS SHOULD I DEVELOP?

- Mechanical Engineering
- Electrical Engineering
- New Product Development
- Computer-Aided Design
- Design Failure Mode And Effects Analysis
- Mechanical Design
- Systems Engineering
- SolidWorks (CAD)
- AutoCAD
- Computer Aided Three-Dimensional Interactive Application (CATIA)

WHAT COMMON SKILLS DO EMPLOYERS LOOK FOR?

- Communications
- Problem Solving
- Management
- Leadership
- Writing
- Microsoft Office
- Planning
- Research
- Microsoft Excel
- Troubleshooting (Problem Solving)

WHAT QUALIFICATIONS SHOULD I PURSUE?

- Professional Engineer
- Licensed Professional Engineer
- LEED Accredited Professional (AP)
- Engineer in Training
- Security Clearance
- Project Management Professional Certification
- National Apprenticeship Certificate
- Six Sigma Black Belt Certification
- Six Sigma Green Belt Certification
- Secret Clearance

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2022
MECHANICAL ENGINEERS

For more information, please visit winintelligence.org/data-research/career-profiles

2022

FOR TRAINING OPPORTUNITIES CONTACT YOUR LOCAL COMMUNITY COLLEGE AND MICHIGAN WORKS! AGENCY
*RELATED TECHNICAL INSTRUCTION PROVIDERS IN SOUTHEAST MICHIGAN ARE COLOR CODED TO MATCH THE PROSPERITY REGION