The graduate program in mechanical engineering is designed to offer a choice in curriculum depending upon career objectives. Students interested in leading cutting-edge research, teaching, creating new knowledge, or some combination of those activities may follow the Master of Science and Doctor of Philosophy route. Those interested in practicing engineering at an advanced level in government or industry may pursue the Master of Engineering in Mechanical Engineering. Students are able to tailor an individual program consistent with a degree choice and focus area of their interest.

Each mechanical engineering graduate course is designed to provide a clear presentation of the underlying principles and theories essential to an understanding of the subject. Analytical and experimental techniques are described when required to apply the subject material to modern problems facing the engineers of today. In many cases, the course material supplements active research in mechanical engineering areas currently conducted at Texas A&M and other prominent research centers around the world. Active research facilities are available for advanced manufacturing, biomechanics, design, plastics engineering, artificial intelligence, robotics, non-destructive testing, fracture testing, metallurgical studies, experimental stress analysis, vibrations and rotating machinery, turbomachinery, fluid dynamics, power generation, combustion, in situ lignite gasification, heat transfer, energy management, corrosion, solar energy and wind tunnel studies.

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<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>University and Year</th>
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<tr>
<td>Erdemir, Ali</td>
<td>Professor</td>
<td>Mechanical Engineering</td>
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<td>Felts, Jonathan R</td>
<td>Associate Professor</td>
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<td>Fenton Friesen, Rebecca</td>
<td>Assistant Professor</td>
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<td>Gopalswamy, Swaminathan</td>
<td>Research Professor</td>
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<td>Grunlan, Jaime C</td>
<td>Professor</td>
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<td>Han, Je C</td>
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<td>Hasnain, Zohaib</td>
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<td>Hassan, Yassin A</td>
<td>University Distinguished Professor and Regents Professor</td>
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<td>Hipwell, M Cynthia</td>
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<td>Jacobs, Timothy J</td>
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<td>Lacy, Thomas E.</td>
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<td>Lan, Shoufeng</td>
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<td>Layton, Astrid C</td>
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<td>Li, Ying</td>
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<td>Malak Jr, Richard J</td>
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- Master of Science in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/ms/)

Doctoral

- Doctor of Philosophy in Mechanical Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/mechanical/phd/)