Mechanical Engineering B.S.M.E.

The mission of the bachelor of science in mechanical engineering is to deliver a laboratory-intensive, undergraduate mechanical engineering education that provides students with the tools and skills to excel in the engineering profession, as they pursue lifelong learning and make positive contributions to society. The student learning experience offers unique opportunities for study abroad, undergraduate research, and electives outside of mechanical engineering to develop an enhanced global perspective.

**Why UMD**

- Active learning environment
- Access to state-of-the-art instrumentation
- Focus on undergraduate teaching and research

**Acquired Skills**

- Solve mechanical engineering problems by applying contemporary engineering tools to propose and implement effective solutions.
- Design, develop, implement, and improve thermal and mechanical systems.
- Contribute as informed, ethical, and responsible members of the engineering profession and society as a whole.
- Continue lifelong professional development throughout their career.
- Collaborate and communicate effectively with others as a member or leader of an engineering or multidisciplinary team in an international setting.

**Career Possibilities**

Mechanical & Industrial Engineering graduates are qualified for employment in a wide variety of organizations, both public and private. For example, recent graduates have taken positions with the following: Apple, Altec, Amsoil, Boston Scientific, Cirrus, Honeywell, Northern Tool, St. Jude Medical, Target Corp., Tundra Innovations and the United States Air Force.

**Scholarships**

Every year, the Mechanical & Industrial Engineering Department awards several scholarships. Number and amount of each award varies based on the availability of funds.

**Student Clubs**

We have several student clubs on campus that our students are a part of. The Bulldog Rocketry club gives students a chance to explore the designing, manufacturing, and testing of high powered rockets in order to partake in the annual Space Grant Midwest High-Power Rocket Competition held by MnSGC & NASA.

The Clean Snowmobile Challenge team obtains a new production snowmobile every couple years and redesigns many features in order to make the snowmobile faster, lighter, more reliable, and more efficient. The Formula Society of Automotive Engineers
(SAE) is a diverse array of highly motivated students led by the Mechanical and Industrial Engineering department at UMD. The group's goal is to design, construct, and test a Formula 1 style racecar in order to compete in the annual nationwide Formula SAE competition.

Our Department is also home to the American Society of Mechanical Engineers, the Diesel Engineering club, the Minnesota Society of Professional Engineers (MNSPE), the Order of the Engineer, the Society of Women Engineers, and the Tau Beta Pi.

**Graduate Report**

Recent UMD Graduates Job Placement Data & Employers

Here's a sampling of positions Mechanical Engineering grads have attained six months to one year after graduation.

- Quality Process Engineer - Cirrus Aircraft, Duluth, MN
- Mechanical Engineer - Custom Automation, Inc., Blaine, MN
- Pilot - United States Air Force, Del Rio, TX
- Product Development Engineer - Ford Motor Company, Dearborn, MI
- Mechanical Design Engineer - Seagate, Bloomington, MN
- Manufacturing Engineer - UTC Aerospace Systems, Burnsville, MN

For more data see the Mechanical Engineering B.S.M.E. Graduate Follow-Up Report [5].

For ideas about Mechanical Engineering B.S.M.E. and other majors visit Career & Internship Services [6].

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**Links**

[1] https://academics.d.umn.edu/admissions/program-type-major