

MECHANICAL ENGINEERING

A. James Clark School of Engineering

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Mechanical engineering is the broadest of the engineering disciplines. It is concerned with the design, manufacture, and operation of a wide range of components, devices, or systems. The field comfortably encompasses applications ranging from micro-mechanical surgical systems to internal combustion engines for Formula One race cars or giant turbines for renewable energy wind farms. A fitting adage for the discipline would be *turning ideas into reality*.

In addition, to the learning opportunities provided through a vibrant curriculum of undergraduate and graduate offerings, students are also provided extensive experiential learning opportunities through the Terps Racing Program (<https://www.facebook.com/terpsracing/>), Robotics at Maryland (<https://robotics-at-maryland.pages.umd.edu/>), and other competition teams, and undergraduate research experiences. Students are also provided opportunities to make a difference worldwide with programs such as Engineers Without Borders (<http://www.ewb.umd.edu>).

PROGRAMS

Major

- Mechanical Engineering Major (<https://academiccatalog.umd.edu/undergraduate/colleges-schools/engineering/mechanical-engineering/mechanical-engineering-major/>)

Minor

- Nuclear Engineering Minor (<https://academiccatalog.umd.edu/undergraduate/colleges-schools/engineering/mechanical-engineering/nuclear-engineering-minor/>)

ADVISING

Mechanical engineering students are required to meet with a departmental advisor each semester prior to registering for the following term. Mechanical Engineering has a team of faculty and staff academic advisors. For more information, please contact the department's Undergraduate Advising Office, 2168-2188 Glenn L. Martin Hall, at 301-405-2410, or review resources including office hours and the appointment process, online at <http://meugrad.umd.edu>.

OPPORTUNITIES

Co-op Programs

Participation in the Cooperative Education Program (<https://eng.umd.edu/careers/students/internships/>) through the Engineering Career Services Office (<https://eng.umd.edu/careers/>) is encouraged. See Clark School of Engineering under Colleges and Schools on this site.

Honors Program

The Engineering Honors Program (<https://eng.umd.edu/engineering-honors-program/>) is administered through the Clark School of Engineering.

Individual honors and awards are presented based on academic excellence and extracurricular activities.

Student Societies and Professional Organizations

Student chapters of professional societies include the American Society of Mechanical Engineers (ASME), American Nuclear Society, Engineers without Borders (EWB), Out in Science, Technology, Engineering and Mathematics (oSTEM), the Society of Automotive Engineers, the Mechanical Contractors Association, the Association for Energy Engineers (AEE) and the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE). The mechanical engineering honor society is Pi Tau Sigma. Information regarding these societies may be obtained at 2184 Glenn Martin Hall.

Scholarships and Financial Assistance

The Office of Student Financial Aid (OSFA) administers all types of federal, state and institutional financial assistance programs and, in cooperation with other university offices, participates in the awarding of scholarships to deserving students. For information, visit: <http://financialaid.umd.edu>.

A limited amount of scholarship aid is available through the Department of Mechanical Engineering. Information may be obtained in the Mechanical Engineering Undergraduate Advising Office. Information about Clark School of Engineering scholarships and Department of Mechanical Engineering scholarships is also available online at <http://eng.umd.edu/scholarships/>.