MECHANICAL ENGINEERING

STEM
Science, Technology, Engineering, and Math
Mechanical engineering is the broadest specialization within the engineering field. Mechanical engineers design and build tools and equipment. Students engage in research in a variety of areas from biomechanics, combustion, and computer-aided design to fluid mechanics, robotics, and stress analysis.

Sample Coursework
- Freshman Engineering
- Communications & Ethics
- Engineering Design
- ME Sciences
- Multivariate Calculus
- Physical Sciences
- Thermal Fluid Sciences

Possible Career Opportunities
- Air Force (Officer)*
- Coast Guard (Officer)*
- Environmental Scientist
- Machinist
- Professor
- Quality Assurance Engineer

Employment and Graduate School Information

Employment Outlook
According to the Occupational Outlook Handbook (2008-09), slower than average growth is expected through 2016. In general, opportunities in manufacturing will decrease but emerging technologies in biotechnology, materials science, and nanotechnology will create new job opportunities for mechanical engineers.

Salary Expectations
Examples of national median annual salaries of careers that can be obtained with a Mathematics degree are (O*NET, 12/2013): Mechanical Engineer $80,580, Environmental Scientist $63,570, Mechanical Engineer Technician $51,980, and Civil Engineer $79,340.

Graduate/Professional School Opportunities
Examples of national median annual salaries of careers that can be obtained with a Mechanical Engineering degree are (O*NET, 12/2013): Professor $68,970, Environmental Scientist $63,570, Civil Engineer $79,340, Mechanical Engineer $80,580, and Mechanical Engineer Technician $51,980.

Where Can I Get More Information?
- Purdue School of Engineering and Tech. Office: SL 260 Phone: (317) 274-9717 engr.iupui.edu/me
- American Society of Mechanical Engineers www.asme.org
- American Society of Heating, Refrigeration, and Air Conditioning Engineering www.ashrae.org

Where Could I Work?
- Automated Manufacturing
- Environmental Control
- Transportation
- Biomedical Fields
- Computer Fields
- Fossil Fuels

Interest Code
- Realistic
- Investigative
- Enterprising

* = Career option requires additional training or education