The mechanical engineer is a professional concerned with machines that perform an infinite variety of tasks involving mechanical work and the conversion of energy into mechanical work. This includes the conversion of solar, chemical, or nuclear energy into mechanical work through various engines and power plants; the transporting of energy via heat exchangers, pipelines, linkages, and air conditioners; and the harnessing of energy to perform tasks useful to society through land, sea, air, and space vehicles, machine tools, home appliances, and agricultural machinery. The mechanical engineer is employed in virtually every kind of industry to seek knowledge through research; to do creative design and development; and to construct, control, and manage the devices and systems needed by humanity.

**Career Areas/Job Titles:**

**Science and Technology**
- Acoustics Analyst
- Aerodynamic Efficiency
- Consultant
- Aerospace Propulsion
- Researcher
- Automotive Engineer
- Biomedical Technology
- Developer
- Computer Assisted Drawer
- Field Service Engineer
- Industrial Hygienist
- Machine Production Designer
- Mechatronics Engineer
- Nanotechnology Specialist
- Packaging Engineering
- Process Improvements
- Designer
- Research and Development
- Robotics Specialist
- Six Sigma Quality Control
- K-12 STEM Teacher
- Lab Technician
- Professor
- Researcher
- Technical Writer

**Non-Profit/Advocacy**
- Service-Learning Coordinator

**Management and Industry**
- Technical Writer
- Technical Sales
- Representative Market
- Research Analyst Copy Writer
- Patent Agent

**Government/Politics**
- Urban and Regional Planner
- Structural Analyst

**Education**
- K-12 STEM Teacher
- Lab Technician
- Professor
- Researcher
- Technical Writer

*Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.*

**Transferable Skills:**

- Quantitative Reasoning
- Problem Solving
- Research skills
- Data Analysis
- Leadership
- Technical Writing
- Computer Skills
- Reading Comprehension
- Forecasting/Predicting
- Teamwork
- Written Communication
- Creativity
- Analytical/Critical Thinking
- Teamwork
- Written Communication
- Creativity

*This is not an extensive list of transferable skills. See larger list of skills you might develop here:*

[http://ccss.osu.edu](http://ccss.osu.edu)

**Professional Links:**

- Occupational Outlook Handbook: [Engineers](http://www.bls.gov)
- Society of Women Engineers: [http://societyofwomenengineers.swe.org/](http://societyofwomenengineers.swe.org/)