MECHANICAL ENGINEERING

Mechanical Engineers research, develop, design, manufacture, and test tools, engines, machines, and other mechanical devices. They typically develop power-producing machines such as electric generators, internal combustion engines, steam and gas turbines, refrigeration and air-conditioning equipment, elevators and escalators, industrial production equipment, and robots used in manufacturing. In addition, mechanical engineers also design tools needed by other engineers to accomplish their work. As one of the broadest engineering disciplines, mechanical engineers may work in production operations in manufacturing or agriculture, maintenance, or technical sales; many are administrators or managers.

Skills Acquired
- Produce and implement designs
- Analyze and interpret data
- Work on multidisciplinary teams
- Test, evaluate and modify products and procedures
- Project and time management
- Effective written and verbal communication

Sample Occupations
- Mechanical Engineer
- Design Engineer
- Product Engineer
- Process Engineer
- Engineering Technician
- Design Maintenance Engineer
- Project Manager
- Electromechanical Engineer
- Engineering Technologist
- Manufacturing Production Engineer

Sample Work Settings
- Federal Government
- Private Defense Contractor
- Thermodynamics Companies
- Navigational Manufacturing
- Machinery Manufacturing
- Automotive Designers & Manufacturers
- Architecture Firms
- Research & Development Dept.
- Navigational, Measuring, Electromedical, Control Instruments Manufacturing
- Engineering Consulting Firm

Sample Employers
- Anheuser-Busch Inc.
- Bose Corporation
- Johnson and Johnson
- Kraft Food
- Lockheed
- Martin
- Microsoft Corporation
- NASA
- Sony Electronics
- Coca-Cola
- Hershey

Mechanical Engineer Annual Salary (BLS, 2017): Regional Average: $110,910 | National Average: $91,500

PROFESSIONAL ORGANIZATIONS
Learn more about the field, network, and search for scholarship, internship, and job opportunities.
- The American Society of Mechanical Engineers www.asme.org
- Society of Automotive Engineers www.sae.org
- International Human Powered Vehicle Association www.ihpva.org
- Society of Manufacturing Engineers www.sme.org
- National Association of Power Engineers www.powerengineers.com
- American Society of Naval Engineers www.navalengineers.org
- Universal Association of Mechanical and Aeronautical Engineers uamae.org

JOB SEARCH RESOURCES
Keywords: Fluid Mechanics, Robotics, Nanotechnology
- Engineering Central www.engcen.com
- Engineering Jobs www.engineerjobs.com
- Engineering.com www.engineering.com/jobs
- iHireEngineering www.ihireengineering.com
- Mechanical Engineering www.mechanicalengineer.com
- Nanowerk www.nanowerk.com