ABOUT A DEGREE IN MECHANICAL ENGINEERING

Mechanical engineers research, develop, design, manufacture and test tools, engines, machines, and other mechanical devices. They apply knowledge of thermal sciences, fluid and solid mechanics, and mathematics to develop and design such systems as power-producing machines, internal combustion engines, steam and gas turbines, and jet and rocket engines. They may also develop machines such as refrigeration and air-conditioning equipment, robotics used in manufacturing, machine tools, materials handling systems, or industrial production equipment. Mechanical Engineers are also involved in research, development, design, production and testing, construction, operations, sales, management and consulting.

Some specialties include applied mechanics, computer-aided design (CAD), energy systems, heating, and refrigeration and air-conditioning systems. Mechanical engineering is one of the broadest of the engineering disciplines, extending across many interdependent specialties.

RELATED SKILLS

- Manual dexterity
- Strong numerical aptitude
- Makes sound judgement and recommendations
- Detail oriented
- Adept at gathering data

HIRING INSTITUTIONS

Manufacturing Companies  Aircraft Industry
NASA  Industrial Machinery Industry
Consultants  Government
Chemical Companies  Automotive
Research Facilities  Oil & Gas
Housewares Manufacturers  Engineering Firms

RELATED WEBSITES

- Mechanical Engineering at the University of Oklahoma: www.coe.ou.edu/ame
- Career Services, University of Oklahoma: www.ou.edu/career
- ThinkJobs.com: www.thinkjobs.com/Think.nsf/Technology2?OpenForm
- National index of engineering jobs and resources: www.engineeringjobs.com
- MonsterTRAK: www.monstertrak.com
- Engineering Central: www.engcen.com
- Engineerjobs.com: www.engineerjobs.com
- Just Engineers: www.justengineers.net
- NationJob Network: www.nationjob.com/community_list.cgi/engineering
- Mechanical Engineer Jobs: www.mechanicalengineer.com/employment.htm
- Career Planning and Counseling: http://jobsarchtech.about.com/cs/careerplanning1/
- American Society of Mechanical Engineers: www.asme.org

careerpaths

Body Systems Engineer  Chassis System Engineer
Design Engineer  Design Engineer Manager
Facilities Maintenance Engineer  Manufacturing Engineer
Nuclear Propulsion Engineer  Oilfield Manufacturing Engineer
Packaging Specialist Engineer  Plant Engineer
Power Train Systems Engineer  Project Engineer
Reliability Engineer  Rotating Equipment Engineer