MECHANICAL ENGINEERING

KEY SKILLS
• Analytical
• Critical Thinking
• Complex Problem Solving
• Data Interpretation
• Decision-Making
• Mathematics Operations
• Project Management
• Research
• Writing

CONCENTRATIONS/SPECIALIZATIONS
• Applied Science & Technology (BA)
• Civil Engineering (BS, MS, PhD)
• Engineering Management (DEng, MS, PhD)
• Mechanical Engineering (BS, BS/MS, MS, PhD)
• Systems Engineering + Engineering Management (BS/MS)
• Acoustical/Audio
• Aerospace
• Biomechanical
• Industrial
• Manufacturing & Design/Drafting
• Materials Science
• Metallurgical
• Nanotechnology
• Nuclear
• Robotics & Mechatronics
• Thermodynamics, Energy, & Fluid Mechanics
  • HVAC
  • Power Plant/Energy
• Vehicle
  • Automotive
  • Marine/Naval

SAMPLE STUDENT ORGS
• Engineers Without Borders
• GWU National Society of Black Engineers
• Pi Tau Sigma (Mechanical Engineering)
• Society of Asian Scientists & Engineers
• Society of Women Engineers
• Tau Beta Pi (Eng. Honor Society)
• Theta Tau (Co-ed Eng. Fraternity)

SAMPLE EMPLOYERS
• Alion Science & Technology
• BAE Systems
• Barone Consulting
• Boeing
• Booz Allen Hamilton
• Brown and Caldwell
• CACI International
• Calpine
• Cenergy International Services
• Concurrent Technologies
• DART Machinery
• Exelon Corporation
• EYP Architecture & Engineering
• Ford Motor Company
• General Electric (GE)
• Holtec International
• Honda Motor Company
• Interface Performance Materials
• LB&B Associates Inc
• Leidos
• Lockheed Martin
• Mitsubishi Motors
• NASA
• NV5
• Parsons Corporation
• Pilkington
• Pratt & Whitney
• Raytheon
• Riedon Group
• SAIC
• Siemens AG
• Stanley Black & Decker, Inc.
• TKDA
• Toyota Motor Corporation
• US Army Corps of Engineers
• US Department of Defense
• US Department of the Interior
• WSP

SAMPLE OCCUPATIONS
• Acoustic Consultant
• Automotive Designer
• Engine Designer
• Heating & Cooling Systems Engineer
• Manufacturing Engineer
• Materials Engineer
• Mechatronic Engineer
• Patent Law Expert
• Power Plant Controls Specialist/Manager
• Principal Mechanical Engineer
• Product Engineer/ Designer
• Project Manager
• Robotics Technician/ Engineer

SAMPLE DEGREES
• Applied Science & Technology (BA)
• Civil Engineering (BS, MS, PhD)
• Engineering Management (DEng, MS, PhD)
• Mechanical Engineering (BS, BS/MS, MS, PhD)
• Systems Engineering + Engineering Management (BS/MS)

POSSIBLE WORK SETTINGS
• Architecture Firm
• Automotive Designer/ Manufacturer
• Construction Company
• Consulting Firm
• Engineering Consulting Firm/Company
• Federal Government
• Local Government
• Machinery Manufacturer
• Micro & Nanotechnology Firm/Company
• Navigational Manufacturer
• Private Defense Contractor
• R&D Department
• Thermodynamics Company

PROFESSIONAL ORGS
• American Society of Mechanical Engineers
• Institution of Mechanical Engineers
• International Academy for Production Engineering (CIRP)
• Society for Experimental Mechanics
• Society of Automotive Engineers
• Society of Manufacturing Engineers

If you’re interested in this field of study, your industry coach is likely to be the STEM industry coach. Set up an appointment on Handshake.