



Career Options in **ENGINEERING**

Engineering is the application of scientific and technical knowledge to solve human problems. Engineers use imagination, judgment and reasoning to apply science, technology, mathematics, and practical experience. The result is the design, production, and operation of useful objects or processes.

SAMPLE OCCUPATIONS: Please note that this is not an exhaustive list of occupations related to this major. Specific requirements based on education level for each occupation may vary. For additional information and assistance, please speak with a Career Center Consultant.

Aerospace Engineer	Civil Engineer	Health & Safety Engineer
Agricultural Engineer	College Professor	Industrial Engineer
Architectural/Civil Drafter	Computer-Systems Engineer	Marine Architect/Engineer
Automotive Master Mechanic	Construction Manager	Mechanical Engineer
Biomedical Engineer	Electrical Engineer/Inspector	Mining & Geological Engineer
Cartographer	Environmental Engineer	Nuclear Engineer
Chemical Engineer	Fire Systems Engineer	Surveyor

SAMPLE WORK SETTINGS:

Architecture Firm	Insurance Carrier	Power Generation & Distribution
Commercial/Residential Site	Medical & Surgical Hospital	Product Manufacturing
Design/Consulting Firm	Oil & Gas Extraction	Scientific Research & Development
Federal Executive Branch	Petroleum & Coal Production	US/State/Local Government Agency
Highway/Street Construction	Pharmaceutical Manufacturing	Waste Treatment & Disposal

SAMPLE GWU RESOURCES:

GW CAREER CENTER RESOURCES: <http://gwired.gwu.edu/career/>

GWork: <http://gwired.gwu.edu/career>

Career Search: <http://www.careersearch.net/gwu>

Career Resource Room

Books: Careers for Computer Buffs and Other Technological Types
Opportunities in High Tech Careers

Magazines: Job Choices in Science, Engineering & Technology
Graduating Engineer & Computer Careers: Job Guide

GW DEPARTMENTAL INFORMATION: <http://www.seas.gwu.edu/gwu/>

Undergraduate Program Information: <http://cs.seas.gwu.edu/academics/undergradacad.html>

Graduate Program Information: <http://cs.seas.gwu.edu/academics/gradacad.html>

SAMPLE WEBSITES:

Career Planning Resources:

American Society for Engineering Education: www.asee.org
Audio Engineering Society: www.aes.org
Online Reference for Mechanical Engineers: www.efunda.com
Guidebook for Prospective Engineers: www.engineeringk12.com
Guide to Engineering by Tau Beta Pi: <http://tbp.ec.uiuc.edu/eguide/index.html>
Occupational Outlook Handbook – Civil Engineers: www.bls.gov/oco/ocos030.htm
Occupational Outlook Handbook – Engineers: <http://www.bls.gov/oco/ocos027.htm>
Online Magazine for Engineers: www.progressiveengineer.com

Job Search Resources:

Engineering Central: www.engcen.com
Engineering Jobs: www.engineerjobs.com
Graduating Engineers: www.graduatingengineer.com
Engineering Careers: www.thecareerengineer.com
Jobs in Mechanical Engineering: www.mechanicalengineer.com
The Chemical Engineer Magazine On-Line: www.tcetoday.com
TechEmployment.com: <http://www.techemployment.com/home.html>
TechJobBank.com: <http://www.techjobbank.com/>
Technology Channel: <http://www.hotjobs.com/htdocs/channels/tech/index.html>

Professional Organizations & Associations:

American Institute of Chemical Engineers: www.aiiche.org
American Society of Mechanical Engineers: www.asme.org
American Society for Engineering Education: www.asee.org
American Society of Civil Engineers: www.asce.org
Audio Engineering Society: www.aes.org
Association for Information Systems: <http://www.aisnet.org/>
Biomedical Engineering Society: www.bmes.org
Electrical & Computer Engineering Society: <http://msw.mcmaster.ca/~eces/>
IEEE: www.ieee.org
Institute of Industrial Engineers: www.iienet.org
International Engineering Consortium: www.iec.org
National Society of Professional Engineers: www.nspe.org
National Engineers Week: www.eweek.com
US Army Corps of Engineers: www.usace.army.mil

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