

What you can do with a degree in

Engineering

 CENTER FOR CAREER & CALLING

The following is a sample of occupational titles and work settings related to Engineering.

Keep in mind that career options are not dictated solely by choice of major.

Just as there are many careers open to graduates of any major, there are many paths to careers that do not require a specific degree. Use this information as a beginning guide to exploring options.

Sample Job Titles:

Chemical*/Biomedical

- Absorption and Adsorption Engineer
- Biochemical Engineer
- Biomedical Engineer
- Biotechnologist
- Chemical Design Engineer
- Chemical Engineer
- Chemical Plant Technical Director
- Chemical Technician
- Chemical Test Engineer
- Environmental Engineer
- Food Engineer
- Petroleum Engineer
- Polymer Engineer

Civil*

- City Planner
- Construction Inspector
- Civil Engineer
- Forest Engineer
- Geotechnical Engineer
- Hydrological Engineer
- Structural Drafter

- Structural Engineer
- Transportation Planner
- Transportation Engineer
- Urban Planning Engineer
- Waterworks Coordinator
- Water Resources Engineer

Environmental

- Agricultural Engineer
- Bioengineer
- Environmental Engineer
- Forest Engineer
- Pollution Control Engineer
- Sanitary Engineer
- Water Quality Engineer
- Water/Wastewater Plant Operator

Industrial*

- Configuration Management Analyst
- Efficiency Engineer

- Ergonomist
- Fire Protection Engineer
- Industrial Engineer
- Health Engineer
- Human Factors Engineer
- Liaison Engineer
- Metrologist
- Manufacturing Engineer
- Packaging Engineer
- Production Planner
- Project Planner
- Safety Engineer
- Quality Control Engineer

Mechanical*

- Automotive Engineer
- Ceramic Engineer
- Corporate Applications Engineer
- Maintenance Superintendents
- Materials Engineer
- Material Handling Engineer
- Material and Metallurgical

- Engineer
- Mechanical Designs Technician
- Mechanical Engineer
- Standards Analyst
- Tool Designer
- Utilization Engineer

Specialty Engineering

- Aerospace/ Aeronautical Engineer
- Marine Engineer
- Naval Engineer
- Nuclear Engineer
- Nuclear Safety Engineer
- Ship Builder
- Solar Energy Engineer

General Engineering

- Design Engineer
- Project Engineer/Manager
- Process Engineer
- Research/Test Engineer
- Sales Engineer

Possible Professional Settings:

- Aerospace Industry
- Automotive Industry
- Architectural Firms
- Colleges and Universities:
- Research/Instruction
- Commercial Airlines
- Consulting Companies
- Construction Companies
- Dept. of Labor
- Dept. of Transportation
- Engineering Companies
- Engineering Consulting Firms
- Farm Equipment Manufacturing
- Government Agencies
- Marine Industry
- NASA
- Petroleum & Gas Companies
- Pulp & Paper Industry
- Waste Water Management

Resources:

The following lists are samples of resources available for learning more about majors and careers.

Websites Related to this Field

- The National Academies of Science, Engineering, and Medicine: www.nationalacademies.org
- Center for Integrating Information on Geo-engineering: www.geoengineer.org
- Engineering Resource Group: <http://www.engineeringresource.com/>
- Progressive Engineer: www.progressiveengineer.com

Professional Associations - Samples

- American Institute of Aeronautics and Astronautics (AIAA): www.aiaa.org
- American Institute for Medical & Biological Engineering: www.aimbe.org
- American Institute of Chemical Engineers (AIChE): www.aiche.org
- American Society of Civil Engineers (ASCE): <http://www.asce.org/>
- American Society of Mechanical Engineers (ASME): www.asme.org
- Florida Engineering Society: www.fleng.org
- Institute of Industrial and Systems Engineers (IIE): <http://www.iise.org/Home/>
- International Society for Soil Mechanics and Geotechnical Engineering: www.issmge.org
- National Society of Black Engineers (NSBE): www.nsbe.org
- National Society of Professional Engineers: www.nspe.org
- Society of Automotive Engineers (SAE): www.sae.org
- Society of Hispanic Professional Engineers: www.shpe.org
- Society of Naval Architects & Marine Engineers: www.sname.org
- Society of Women Engineers (SWE): www.swe.org

Sample Internship Sites & Volunteer Opportunities

- <https://spu.edu/administration/center-career-calling/prepare/finding-an-internship/internship-locations>

General Career Information

- Occupational Outlook Handbook: www.bls.gov/ooh/
- The Occupational Information Network, (O*Net): www.onetonline.org

SPU Resources

- Engineering Department Website: <https://spu.edu/academics/college-of-arts-sciences/engineering-and-computer-science>
- Major & Career Exploration (GS 2001 - 2 credits, offered every quarter)
- Career Counseling: call 206.281.2485 or stop by the Center for Career and Calling on the second floor of the SUB
- Academic Advising: www.spu.edu/depts/sas
- Academic Catalog: www.spu.edu/academics.aspx

* Websites are current as of August 2020. If any go inactive, please let us know.