Engineering

This sheet has sample occupations, work settings, employers, and career development activities associated with this major. Some of these options may require additional training and career planning. You are not limited to these options when choosing a possible career path.

Sample Occupations

**Chemical*/Biomedical**
- Absorption Engineer
- Biochemical Engineer
- Biomedical Engineer
- Biotechnologist
- Chemical Design Engineer
- Chemical Engineer
- Chemical Technician
- Petroleum Engineer
- Polymer Engineer
- Computer Engineer
- Controls Engineer
- Electrical Engineer
- Fiber optics Engineer
- Illuminating Engineer
- Robotics Engineer
- Software Engineer

**Environmental**
- Agricultural Engineer
- Bioengineer
- Environmental Engineer
- Forest Engineer
- Pollution Control Engineer
- Sanitary Engineer
- Water Quality Engineer

**Civil**
- City Planner
- Construction Inspector
- Civil Engineer
- Forest Engineer
- Geotechnical Engineer
- Hydrological Engineer
- Structural Engineer
- Transportation Engineer
- Urban Planning Engineer
- Waterworks Coordinator
- Applications Engineer

**Electrical**
- Configuration Management Analyst
- Ergonomist
- Fire Protection Engineer
- Industrial Engineer
- Human Factors Engineer

**Mechanical**
- Aerospace Engineer
- Automotive Engineer
- Ceramic Engineer
- Control Engineer
- Corporate Applications Engineer
- Design Engineer
- Energy Engineer
- Manufacturing Engineer
- Materials Engineer
- Mechanical Design Engineer
- Material and Metallurgical Engineer
- Mechanical Designs Technician
- Robotics Engineer
- Standards Analyst

**Industrial**
- Liaison Engineer
- Manufacturing Engineer
- Packaging Engineer
- Project Planner
- Safety Engineer
- Quality Control Engineer

**Specialty Engineering**
- Aerospace/Aeronautical Engineer
- Marine Engineer
- Naval Engineer
- Nuclear Engineer
- Nuclear Safety Engineer
- Solar Energy Engineer

*offered at FAMU/FSU College of Engineering

Sample Work Settings

**Automotive Manufacturers**
- Department of Energy
- Department of Labor
- Department of Transportation
- Farm Equipment Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Architectural Firms**
- Department of Energy Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Commercial Airlines**
- Department of Energy Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Computer Firms**
- Department of Energy Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Department of Energy**
- Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Department of Labor**
- Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Department of Transportation**
- Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Engineering Consulting Firms**
- Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Farm Equipment**
- Manufacturing
- Heating, Ventilating & Air Conditioning Industries
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Heating, Ventilating & Air Conditioning Industries**
- Manufacturing
- NASA
- Petroleum & Gas Companies
- Universities: Research/Instruction

**NASA**
- Manufacturing
- Petroleum & Gas Companies
- Universities: Research/Instruction

**Petroleum & Gas Companies**
- Manufacturing
- NASA
- Universities: Research/Instruction

**Universities: Research/Instruction**
- Manufacturing
- NASA
- Petroleum & Gas Companies

Sample Employers

A sample of organizations that have hired students with a concentration in engineering

- Ascend Performance Materials
- Exxon Mobile Corporation
- Florida Dept. of Env. Protection
- GA Aviation/Unison Industries
- Kimley, Horn & Associates Inc.
- Parker Hannifin Corporation
- Pepsico
- Siemens Corporation

Connecting Majors, Skills, and Occupations

- View learning outcomes associated with your major in the FSU Undergraduate Academic Program Guide Learning Compact: [www.academic-guide.fsu.edu/](http://www.academic-guide.fsu.edu/)
- Explore the connection between occupations and skills in O*Net: [www.onetonline.org](http://www.onetonline.org)
- Use the FSU Career Portfolio to document transferable skills you develop through your major and other experiences: [www.portfolio.fsu.edu](http://www.portfolio.fsu.edu)
- Use ProfessioNole to learn more about industry demands, career expectations, and opportunities from professionals: [www.career.fsu.edu/professionole](http://www.career.fsu.edu/professionole)
Sample Career Center Library Resources

Sample Books
Careers in Engineering.............................................IIB 17-2000 V5
Careers in High Tech.............................................IIB 17-2000 B25
Career Opportunities in Science..............................IIB 19-0000 E25
Career Opportunities in the Energy Industry.............IIB 17-3020 T3
Engineers Occupational File.................................IIB 17-2000
Florida Institute of Consulting Engineers...............VI B5 F5
Great Jobs for Engineering Majors.........................IIC EG G3
Opportunities in Building Construction Trades..........IIB 47-0000 S9
Opportunities in Electronics Careers......................IIB 17-3020 R6
Opportunities in Engineering Careers......................IIB 17-2000 B2
Real Resumes for Engineering Jobs........................VA M359
The Engineer's Career Guide.................................IIB 17-2000 H6
Tomorrow's Professor: Preparing for Academic...Careers in Science and Engineering.........................IIB 25-1000 R45
Unlocking Your Brilliance: Smart Strategies for Women to Thrive in Science, Technology, Engineering, and Math.............................IG4 P8
Women in Engineering: Professional Life....................IG4 L3

Self-Exploration and Career Information
To explore values, interests, and skills:
FOCUS 2
www.career.fsu.edu/Students/Plan-Your-Career/Explore-Majors-and-Careers/FOCUS2
Sigi3
www.career.fsu.edu/sigi
(Obtain a User ID from a Career Advisor)

To explore occupational outlooks and salaries:
National Compensation Survey
www.bls.gov/ncs/
Occupational Outlook Handbook
http://www.bls.gov/ooh
Salary.com
www.salary.com
SeminoleLink
www.career.fsu.edu/seminolelink
See additional resources in Career Center Advising Module Sheets:
www.career.fsu.edu/Resources/Module-Sheets

Sample Websites
Advisers to the Nation on Science, Engineering and Medicine
www.nationalacademies.org
Center for Integrating Information on Geoengineering
www.geoengineer.org
Engineer Resources Online
www.er-online.co.uk
Progressive Engineer
www.progressiveengineer.com

Sample Professional Organizations
American Institute of Chemical Engineers (AIChE) - New York, NY
www.aiche.org
American Society of Mechanical Engineers (ASME) - New York, NY
www.asme.org
Institute of Industrial Engineers (IIE) - Norcross, GA
www.iienet.org
American Society of Civil Engineers (ASCE) - Reston, VA
www.asce.org
Institute of Electrical and Electronic Engineers (IEEE) - New York, NY
www.ieee.org/portal/site
Society of Women Engineers (SWE) - Chicago, IL
www.swe.org

For other related professional organizations, go to FSU Libraries database at lib.fsu.edu; select Find a Database; search for Gale Databases; choose Associations Unlimited.

Additional Information
Florida State University Career Guide
www.career.fsu.edu/Resources/Career-Guides
Career Guides by Topic
www.career.fsu.edu/Resources/Career-Guides
Library Links
www.career.fsu.edu/Resources/Career-Center-Library
Steps to Career Success
www.portfolio.career.fsu.edu/stepstocareersuccess/index.html