

## ENGINEERING

**SAMPLE OCCUPATIONS** Please ask a career advisor for help in identifying resources for the following occupations and job titles. Note that some of these options may require an advanced degree.

### **CHEMICAL\***

Absorption and Adsorption Engineer  
Biomedical Engineer  
Biotechnologist  
Chemical Design Engineer  
Chemical Engineer  
Chemical Plant Technical Director  
Chemical Technician  
Chemical Test Engineer  
Petroleum 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

### **ELECTRICAL\***

Applications Engineer  
Computer Engineer  
Controls Engineer  
Electrical Engineer  
Electronics Engineer  
Fiberoptics Engineer

Illuminating Engineer  
Integrated Circuit Layout Designer  
Robotics Engineer  
Software Engineer  
Testing 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  
\*\*offered at FAMU/FSU College of Engineering

### **SAMPLE CAREER CENTER LIBRARY RESOURCES**

Careers in Engineering IIB 17-2000 V5  
Careers in High Tech IIB 17-2000 B25  
Careers for Nature Lovers & Other Outdoor Types IIA CF-N3  
Careers for Number Crunchers & Other Quantitative Types (Ready Reference) IIA CF-N8  
Careers in Science IIB 19-0000 E2  
Engineers File IIB 17-2000  
Federal Career Opportunities VI B2 U7  
Florida Aviation/Aerospace Directory 1999 VI B5 E5  
Job Choices 2006 for Science, Engineering & Technology VI B5 C61 c2  
Physical Sciences Career Directory VIB5 M6

Opportunities in Building Construction Trades IIB 47-0000 S9  
Opportunities in Computer Maintenance Careers IIB 49-2011 K3  
Opportunities in Civil Engineering Careers IIB 17-2051 H3  
Opportunities in Electronics Careers IIB 17-3020 R6  
Opportunities in Energy Careers IIB 17-3020 W6  
Opportunities in Engineering Careers IIB 17-2000 B2  
Opportunities in High Tech Careers IIB 17-2000 G6  
Opportunities in Robotics Careers IIB 17-3020 B6  
Opportunities Telecommunications Careers IIB 27-3000 B61

For POSSIBLE electronic format for these or other related resources, use the FSU Libraries Catalog at [lib.fsu.edu](http://lib.fsu.edu); select Advanced Catalog Search: **Keywords Anywhere** = vocational And **Title Keywords** = type a specific career area (think of alternate terms to describe your career in case one doesn't give results).

## **OTHER SOURCES OF INFORMATION**

Choices Planner

[www.bridges.com/cpflorida/](http://www.bridges.com/cpflorida/)

eDISCOVER

[www.act.org/discover/login](http://www.act.org/discover/login)

(Obtain a User ID from a career advisor)

Encyclopedia of Careers & Voc. Guidance

IIA E6 v. 1-5

Occupational Outlook Handbook

[www.bls.gov/oco/](http://www.bls.gov/oco/)

O\*NET

[www.onetcenter.org/](http://www.onetcenter.org/)

SIGI 3

[www.career.fsu.edu/sigi](http://www.career.fsu.edu/sigi)

(Obtain a User ID from a career advisor)

## **SAMPLE WORK SETTINGS**

Aerospace Industry

Automotive Industry

Architectural Firms

Commercial Airlines

Computer Firms

Dept. of Energy

Dept. of Labor

Dept. of Transportation

Energy and Fuels

Engineering Consulting Firms

Farm Equipment Manufacturing

Heating, Ventilating and Air-

conditioning Industries

Manufacturing

Marine Industry

NASA

Petroleum & Gas Companies

Pulp and Paper Industry

Telecommunications

Universities: Research/Instruction

Waste Water Management

## **SAMPLE PROFESSIONAL ORGANIZATIONS**

American Institute of Aeronautics and Astronautics

(AIAA)

Reston, VA

[www.aiaa.org](http://www.aiaa.org)

American Institute for Medical & Biological

Engineering

Washington D.C.

[www.aimbe.org](http://www.aimbe.org)

American Institute of Chemical Engineers (AIChE)

New York, NY

[www.aiche.org](http://www.aiche.org)

American Society of Civil Engineers (ASCE)

Reston, VA

[www.asce.org/asce.cfm](http://www.asce.org/asce.cfm)

American Society of Mechanical Engineers (ASME)

New York, NY

[www.asme.org](http://www.asme.org)

Florida Engineering Society

Palm Beach, FL

[www.fleng.org](http://www.fleng.org)

Institute of Electrical and Electronic Engineers (IEEE)

New York, NY

[www.ieee.org/portal/site](http://www.ieee.org/portal/site)

Institute of Industrial Engineers (IIE)

Norcross, GA

[www.iienet.org/](http://www.iienet.org/)

National Society of Black Engineers (NSBE)

Alexandria, VA

[www.nsbe.org](http://www.nsbe.org)

National Society of Professional Engineers

Alexandria, VA

[www.nspe.org](http://www.nspe.org)

Society of Automotive Engineers (SAE)

Warrendale, PA

[www.sae.org/servlets/index](http://www.sae.org/servlets/index)

Society of Hispanic Professional Engineers

Los Angeles, CA

[www.shpe.org](http://www.shpe.org)

Society of Naval Architects & Marine Engineers

Jersey City, NJ

[www.sname.org/](http://www.sname.org/)

Society of Women Engineers (SWE)

Chicago, IL

[www.swe.org](http://www.swe.org)

For other related professional organizations, use Gale's Organization through FSU Libraries database at [www.lib.fsu.edu](http://www.lib.fsu.edu); select List all Databases; select Gale's Ready Reference shelf; choose Organizations.

## **SAMPLE WEB SITES**

[www.er-online.co.uk](http://www.er-online.co.uk) - Engineer Resources Online

[www.nationalacademies.org/](http://www.nationalacademies.org/) - Advisers to the Nation on Science, Engineering, and Medicine

[www.myperfectgig.com/](http://www.myperfectgig.com/) - Job Search Website

02/08 · The Career Center · *linking futures*

Florida State University · 850-644-6431 · [career.fsu.edu](http://career.fsu.edu)

Available in alternative format upon request. K:\CC-Shared\pubs\Match Major Sheets\ENGINEERING.doc