

## List of Careers—F.S.I.



### **Aerospace Engineering and Operations Technician**

Operate, install, and maintain computer/communications systems, simulators, and other data instruments to launch, track, and evaluate air and space vehicles. May record and interpret test data.

### **Atmospheric and Space Scientist**

Investigate atmospheric phenomena. Interpret data gathered by stations, satellites, and radar. Prepare reports and forecasts for public and other uses.

### **Calibration and Instrumentation Technician**

Develop, test, calibrate, operate, and repair many types of instruments. Instruments include mechanical, electromechanical, and electrohydraulic measuring and recording instruments.

### **Computer Programmer**

Convert statements and procedures to flow charts for coding into computer language. Develop and write computer programs. May program web sites.

### **Computer Software Engineer, Applications**

Develop, create, and modify general computer applications software or programs. Analyze user needs and develop software solutions. May analyze and design databases.

### **Computer Support Specialist**

Provide technical assistance to computer users. Answer questions or resolve computer problems for customers in

person, by telephone, or from remote location. May provide help with computer hardware and software.

### **Electrical Drafter**

Develop instructions for installation of voltage transformers, overhead or underground cables, and related electrical equipment.

### **Electrical Engineering Technician**

Apply electrical theory and related knowledge to test electrical machinery and control equipment. Usually work under direction of engineering staff.

### **Emergency Medical Technician and Paramedic**

Assess injuries, administer emergency medical care, and rescue trapped individuals. Transport injured or sick persons to medical facilities.

### **Fire Investigator**

Conduct investigations to determine causes of fires and explosions.

### **Fire Prevention and Protection Engineer**

Research causes of fires, determine fire protection methods, and design materials or equipment to assist organizations in safeguarding against fire, explosion, and related hazards.

### **Materials Engineer**

Evaluate materials and develop machinery and processes to manufacture materials. Develop new uses for known materials. Includes working in one type of material, such as graphite, metal and metal alloys, ceramics and glass, and plastics.

### **Mathematician**

Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve problems in various fields by mathematical methods. May work with geographic information systems (GIS).

### **Municipal Firefighter**

Control and extinguish fires, protect life and property, and conduct rescue efforts.

### **Occupational Health and Safety Specialist**

Review and analyze work environments and design programs to control and prevent disease or injury caused by chemical, physical, and biological factors.

### **Occupational Health and Safety Technician**

Review, evaluate, and analyze work environments and design programs and procedures to control, eliminate, and prevent disease or injury caused by chemical, physical, and biological agents or ergonomic factors. May conduct inspections and enforce adherence to laws and regulations governing the health and safety of individuals. May be employed in the public or private sector.