

Airlines and Airport Services

Training	Positions
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Operations Supervisor

College degree Industry-wide

Customer Services Representative

H.S. diploma; business experience Airlines

Ticket Agent

H.S. diploma; two years college preferred Airlines

Reservations Sales Agent

H.S. diploma; two years college preferred Airlines

Flight Attendant

H.S. diploma, special training; college preferred Airlines

Baggage Handler

H.S. diploma Airlines

Sky Cap

H.S. diploma Airlines

Cargo Handler

H.S. diploma Airlines; air freight companies

Air Freight/Cargo Agent

H.S. diploma; shipping experience Airlines; air freight operators

Passenger Service Agent

H.S. diploma; experience helpful Medium to large airports

Office Professionals

Training	Positions
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Travel Agent

H.S. diploma; special training Travel agencies; government

Secretary/Administrative Assistant

H.S. diploma Industry-wide

Information Systems Specialist

College degree Industry-wide

Aircraft Manufacturing Occupations

Training	Positions
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Manufacturing Engineer

Bachelor of Science degree Aircraft manufacturers

Electrical Installers & Technician

H.S. diploma; Associate's degree Aircraft manufacturers

Tool, Jig & Fixture Maker

H.S. diploma; vocational school Aircraft manufacturers

Machine Tool Operator

H.S. diploma; vocational school Aircraft manufacturers

Sheet Metal Fabrication

H.S. diploma Aircraft manufacturers

Assemblers & Installer

H.S. diploma Aircraft manufacturers

Quality Technician

H.S. diploma; Associate's degree Aircraft manufacturers

Science and Technical Services

Training	Positions
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Engineer (Aeronautical, Aerospace, Civil, Electrical, Mechanical)

Engineering degree Aircraft manufacturers; FAA; NASA

Meteorologist

Meteorology degree; experience preferred National Weather Service; airlines; private weather companies; FAA

Cartographer

Cartography degree NOAA; federal and state governments; private companies

Architect

Architecture degree Airports Architectural firms

Technician (Electronics, Radar, Navigation)

H.S. diploma; special training FAA; independent contractors

Aviation and Space Education Program Federal Aviation Administration

www.faa.gov/education

Explore FAA's web sites for information and resources of interest to students, educators, aviation enthusiasts, and employment seekers:

- ▶ Aviation Schools & Universities
- ▶ Aviation History
- ▶ Grants & Scholarships
- ▶ Events & Activities (camps...celebrations...contests)
- ▶ International Art Contest
- ▶ Curriculum & Career Information

More Educational Websites

American Institute of Aeronautics and Astronautics
www.aiaa.org

Commercial Space Transportation's Education
ast.faa.gov/education

Experimental Aircraft Association
www.eaa.org/en/ea/aviation-education-and-resources

Federal Aviation Administration Careers
www.faa.gov/jobs/

Jamail Larkins, Aerospace Careers Ambassador
www.erau.edu/dreamlaunch/index.htm

NASA: Student Opportunities
www.nasa.gov/solve/opportunities/student

National Association of State Aviation Officials Center for Aviation Research and Education (NASAO Center)
www.nasao.org/education/nasao-center-for-aviation-research-and-education/

National Coalition for Aviation Education (NCAE)
www.aviationeducation.org

Occupational Outlook Handbook
www.bls.gov/ooh/

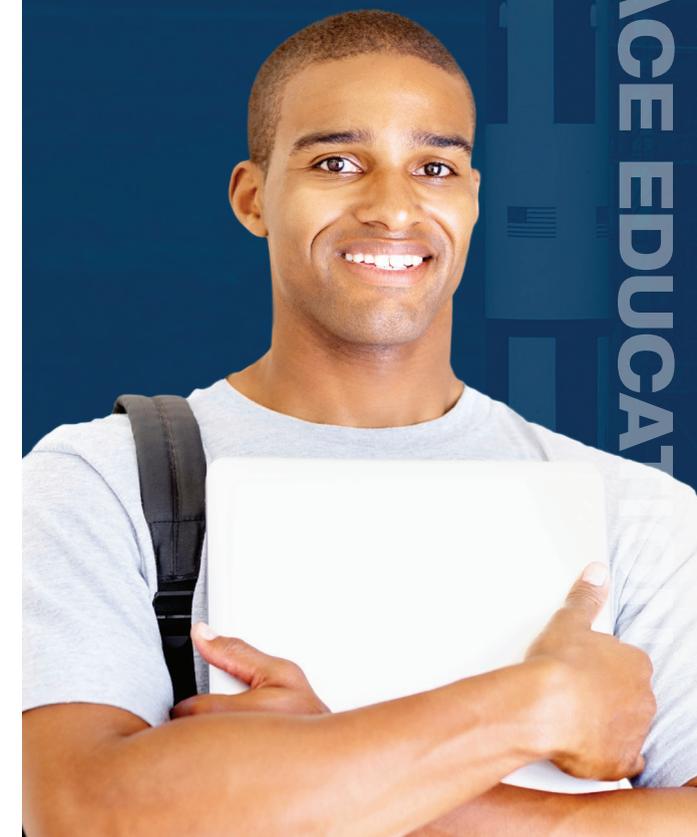
The United States Air Force Auxiliary Civil Air Patrol
www.cap.gov

Women in Aviation
www.wai.org/education/index.cfm



Federal Aviation Administration

Careers in Aviation and Space



AVIATION AND SPACE EDUCATION



Federal Aviation Administration

What is the Aviation System?

The aviation system is everything that allows us to fly. The ultimate users are the public, passengers, and shippers. The ultimate purpose is to transport passengers, services and products safely, securely, and efficiently. The aviation system is part of a larger aerospace system that also serves the emerging commercial space transportation industry.

What is Commercial Space Transportation?

Commercial space transportation involves the movement of objects to, from, or within space, using launch vehicles built, owned, and operated by private companies or organizations. For example, rockets position objects like communication and observation satellites into orbit. The FAA regulates launch and reentry of commercial launch vehicles and operation of commercial launch sites in the United States.

Careers in Aviation and Space

The aviation and space industry offers career opportunities to suit many interests and backgrounds. Aviation remains an integral part of our society that will continue to grow and need qualified personnel. Here is a look at some of the careers in aviation and space that might help you plan your future.

Pilot Careers

Training	Positions
Agricultural Pilot	
High School (H.S.) diploma; special training	Agricultural operators; large farms
Air Traffic Reporting Pilot	
College preferred	Radio & TV; traffic reporting companies
Major/National Airline Pilot	
College; most require 4-year degree	Major and national airlines
Regional Airline Pilot	
College; most require 4-year degree	Regional airlines
Helicopter Pilot	
College preferred; most require 4-year degree	Helicopter operators; corporate flight departments; Federal Aviation Administration (FAA)
Corporate Pilot	
College preferred; most require 4-year degree	Companies with flight departments; FAA
Flight Instructor	
H.S. diploma	Flight schools
Military Pilot	
College degree required	U.S. Armed Forces
Astronaut	
Engineering; physical science, physics, or similar advanced degree	NASA



Airlines and Airport Operators

Training	Positions
Airport Manager	
College degree in airport management preferred or business administration	Airports; airport authorities
Fixed Base Operator Manager	
H.S. diploma; college degree sometimes preferred	Fixed base operators (FBOs)
Lineperson	
H.S. diploma	Airports; airlines; FBOs
Station Manager	
H.S. diploma; experience preferred	Airlines
Scheduling Coordinator	
College degree preferred; experience helpful	Airlines
Flight Dispatcher	
Dispatcher license; college degree and experience preferred	Airlines
Air Traffic Controller	
FAA training; college preferred	FAA; Military
Safety Inspector	
Engineering degree and/or experience as pilot or mechanic	FAA
Concession Workers	
H.S. diploma	Airport concessionaires
Fire and Crash Rescue	
Special training; college preferred	Medium to large airports
Ground Attendant	
H.S. diploma	Airlines
Ramp Service Personnel	
H.S. diploma	Airlines; airports; FBOs
Cabin Maintenance Mechanic	
H.S. diploma; technical training	Airlines
Ramp Planner	
H.S. diploma; experience preferred	Airlines

Aircraft and Systems Maintenance

Training	Positions
Airframe or Powerplant Mechanic	
H.S. diploma; technical training; degree preferred	Airlines; FBOs; private companies
Airframe and Powerplant	
H.S. diploma; technical training; degree preferred	Airlines; FBOs; private companies
Avionics Specialist	
H.S. diploma; technical training; degree preferred	Airlines; FBOs; private companies
Law-Related Services	
Training	Positions
Aviation Attorney	
Law degree	FAA; airlines; government; private law firms
Inspector	
H.S. diploma	Construction companies; airport consultants; government
Accident Investigator	
College degree, industry experience	Nat'l Trans Safety Board; FAA; insurance companies
Security Specialist	
H.S. diploma; law enforcement experience	FAA; Homeland Security; Airports; Cargo shippers and Airlines for local/state/federal gov't./private industry

Health Services

Training	Positions
Flight Physician/Aviation Medical Examiner	
Medical degree; military; private practice	Airlines; NASA; FAA

Food Services

Training	Positions
Food Preparer	
H.S. diploma; health certificate required	Airlines; airline caterers; airports