

AEROSPACE



KEY SKILLS

- Analytical
- Business
- Critical Thinking
- Data Interpretation
- Decision-Making
- Mathematics Operations
- Problem Solving
- Project Management
- Research
- Writing



CONCENTRATIONS/SPECIALIZATIONS

- Business/Supply Chain
- Design
- Engineering
 - Aerodynamics
 - Avionics & Systems
 - Manufacturing
 - Materials & Structures
 - Propulsion
 - Space
- Flying
- Maintenance
 - Aircraft Maintenance
 - Quality Assurance
- Operations
 - Airport/Air Traffic Control
 - Cabin Crew
 - Management
- Testing & Evaluation



SAMPLE DEGREES

- Applied Science & Tech. (BA)
- Astronomy & Astrophysics (BS)
- Business (BBA, MBA)
- Computer Science (BS, MS, PhD)
- Electrical Engineering (BS, MS, BS/MS, PhD)
- Mechanical Engineering (Concentration in Aerospace Engineering) (BS, MS, PhD)
- Systems Engineering (BS, MS)



SAMPLE OCCUPATIONS

- Aeronautical Engineer
- Aircraft Mechanic
- Astronaut
- Computational Fluid Dynamics Engineer
- Chief Technology Officer
- Electrical Engineer
- Fighter Jet Software Engineer
- Ground Radio Operator
- Inspector/Compliance Officer
- Pilot
- Quality Assurance Engineer
- Radar Systems Engineer
- Spacecraft Designer
- Stress Analyst



POSSIBLE WORK SETTINGS

- Aerospace Product Manufacturer
- Aircraft Manufacturer
- Architecture Firm
- Engineering Firm
- Government/Defense Agency
- Major Airline
- Military
- Private Corporation
- Research & Development Organization/Company
- Spacecraft Manufacturer
- University/College



SAMPLE STUDENT ORGS

- Engineers Without Borders
- GWU National Society of Black Engineers
- Int. Council on Systems Engineering
- Pi Tau Sigma (Mechanical Engineering)
- Society of Asian Scientists & Engineers
- Society of Women Engineers
- Tau Beta Pi (Engineering Honor Society)



SAMPLE EMPLOYERS

- 3D Robotics
- 4Frontiers Corporation
- ACI Federal
- Aero Controls
- Airbus SAS
- Arena Technical Resources
- Aurora Flight Sciences Corporation
- Ball Aerospace
- BAE System
- B/E Aerospace
- Boeing
- Booz Allen Hamilton
- CACI
- Centra Technology
- Cessna Aircraft Company
- Chromalloy
- Collins Aerospace
- Crane Aerospace & Electronics
- Davis Defense Group, Inc.
- Delta Airlines
- Department of Defense
- Emergent Space Technologies
- Federal Aviation Administration
- Fuchs Lubricants Corporation
- Gulfstream Aerospace
- Honeywell Aerospace
- Johnson Service Group, Inc.
- Lockheed Martin
- MAG Aerospace
- Metro Aviation, Inc.
- NASA
- Northrop Grumman
- Office of Naval Research
- SpaceX
- Systima Technologies, Inc.
- The Aerospace Corporation
- The Angelus Corporation



PROFESSIONAL ORGS

- Aerospace Industries Association
- American Astronautical Society
- American Institute of Aeronautics and Astronautics (AIAA)
- SAE International
- Universal Association of Mechanical and Aeronautical Engineers
- Vertical Flight Society

