Program Description

Aerospace Engineers design aircrafts, spacecrafts, satellites, and missiles. They often assess proposals for projects to determine if they are technically and financially feasible and determine if proposed projects will result in safe aircraft parts. After testing prototypes to make sure that they function according to design and meet engineering principles, customer requirements, and environmental challenges, Aerospace Engineers typically direct and coordinate the manufacturing and testing of aircraft and aerospace products. In addition, Aerospace Engineers develop criteria for design methods, sustainment after delivery, and completion dates in order to meet quality standards. Lastly, Aerospace Engineers also inspect malfunctioning or damaged products to identify problems and propose possible solutions.

Sample Occupations
- Aeronautical Engineers
- Astronautical Engineers
- Computational Fluid Dynamic Engineers
- Design Aerospace Engineers
- Manufacturing Aerospace Engineers
- Marketing and Sales Aerospace Engineers
- Materials Aerospace Engineers
- Quality Control Aerospace Engineers
- Stress Analysts

Sample Work Settings
- Navigational, Measuring, Electromedical, and Control Instruments Manufacturing
- Aircraft and Spacecraft Manufacturing
- Aerospace Product and Parts Manufacturing
- Government and National Defense
- Scientific Research and Development Services
- Architectural, Engineering, and Related Services

Job Search & Career Planning Resources
Use Career Center Online Resources
(GWork, GoingGlobal, Vault)
Keywords: Aerospace, Aircraft

Job Search Sites
Engineering Central: www.engcen.com
Engineering Jobs: www.engineerjobs.com
Graduating Engineer: www.graduatingengineer.com
Engineering Careers: www.thecareerengineer.com
Aerospace Engineer http://www.aerospaceengineer.com
Aviation Jobs and Aviation Employment http://www.avjobs.com

Top Employers In This Field:
4Frontiers Corporation
Aero Controls
Airbus SAS
BAE System
ASRC Aerospace Corporation
Boeing
Sikorsky Aircraft
CAE
Major airlines (e.g. Delta, United, Jetblue, Southwest, US Airways, Virgin America, Korean Air, Asiana, Lufthansa Group, Emirates)

Professional Organizations
Tip: Join professional organizations to network and find out more about your field.
- American Institute of Aeronautics and Astronautics www.aiaa.org
- SAE International www.sae.org
- Aerospace Industries Association http://www.aia-aerospace.org
- Universal Association of Mechanical and Aeronautical engineers http://uamae.org