



Aerospace Engineer

Education and Training

Aerospace Engineers must have a Bachelor's degree in a relevant discipline, such as engineering physics, computer science, and aerospace engineering. Most are required to register in a professional association. Graduates from an accredited institution are eligible following two or more years of supervised work experience. Others may instead complete additional years of supervised work without formal education and then pass the necessary exams.

Nature of Work

Aerospace engineers research, design and develop aircraft, spacecraft, missiles, aerospace systems and their components, and perform duties related to the testing, evaluation, installation, operation and maintenance of aerospace vehicles and systems.

Main Duties

- Design/develop aerospace vehicles, systems and components
- Develop/conduct computer simulations of aerospace vehicles, systems and components, and prepare specifications for materials and processes to be used in aerospace manufacturing, maintenance, repair or modification
- Supervise and coordinate manufacturing, assembly, modification, repair and overhaul of aircraft and spacecraft
- Coordinate ground flight tests of air and spacecraft
- Develop operational specifications, maintenance schedules and manuals
- Develop the technical phases of logistical and operational support for aerospace vehicles/systems
- Investigate/report on structural, component or systems failures, accidents or incidents and prepare recommendations for corrective action

Typical Employer

Aircraft and spacecraft manufacturers and air transport carriers.

Additional Information

Aerospace Industries Association of Canada
www.aiac.ca/
 BCIT Aerospace
www.bcit.ca/transportation/aerospace/
 Bombardier Aerospace
www.bombardier.com
 Carleton University
www.mae.carleton.ca
 Engineers Canada
www.engineerscanada.ca/

Earnings

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| Low: | \$30,000 |
| Average: | \$60,000 |
| High: | \$75,000 |

Essential Characteristics

- Attention to detail
- Organizational skills
- Teamwork

