**Job title: Aerospace Engineer**

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| **Job title: Aerospace Engineer** | Aerospace engineers design, build and maintain planes, spacecraft and satellites |
| **Entry requirements:**  | You can do a foundation degree, higher national diploma or degree in aerospace engineering, avionics, or a related subject like:* electrical or electronic engineering
* mechanical engineering
* manufacturing or product engineering
* physics or applied physics
* software engineering or mathematics

Entry requirementsYou'll usually need:* 1 or 2 A levels for a foundation degree or higher national diploma
* 2 or 3 A levels, including maths for a degree

You can do a higher national certificate (HNC) or diploma (HND) in engineering before applying for a job with an aerospace company. Subjects include:* Level 4 HNC Diploma in Mechanical Engineering
* Level 5 HND Diploma in Aeronautical Engineering
* Level 5 HND Diploma in Electrical Engineering

Entry requirementsYou may need:* 1 or 2 A levels, a level 3 diploma or relevant experience for a level 4 or level 5 course

You can do a degree apprenticeship as an aerospace engineer. Entry requirementsYou'll usually need:* 4 or 5 GCSEs at grades 9 to 4 (A\* to C) and college qualifications like A levels for a higher or a degree apprenticeship
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| **Skills required:**  | You'll need:* knowledge of engineering science and technology
* maths knowledge
* design skills and knowledge
* to be thorough and pay attention to detail
* excellent verbal communication skills
* science skills
* analytical thinking skills
* the ability to read English
* you will be expected to use a computer confidently as part of this job.
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| **What you'll do:**  | Your day-to-day duties will depend on your role but may include:* developing navigation, communications or weapons systems
* researching ways to make fuel-efficient parts, such as wings, fuselage and engines
* using CAD software for design
* testing prototypes
* collecting and analysing test data
* planning and supervising the fitting of aircraft and components
* signing off projects under strict industry regulations
* scheduling and supervising maintenance
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| **What you’ll earn:**  | * Starter: £20,000
* Experienced: £60,000

*These figures are a guide.* |
| **Working hours, patterns and environment:** | * You could work on an aircraft, at a client's business, in a factory or in an office.
* Your working environment may be cramped.
* 39 to 41 hours a week – evenings and weekends occasionally
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| **Career path and progression:** | With experience, you could specialise in a particular field like:* aerodynamics
* fuel efficiency
* space technology
* investigating air accidents
* You could also move up to become a project manager or consultant aerospace engineer.
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