**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 requirements You'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 requirements You 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 requirements You'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 |
| **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. |
| **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 |
| **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 |
| **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. |