# University of Glasgow - Postgraduate study - Taught degree ...**Job title:** Aerospace Engineer

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| **Job title:**  (Also known as an Aeronautical engineer) | Aerospace engineers design, build and maintain planes, spacecraft and satellites. |
| **Routes and**  **Entry requirements:** | **University**  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   You'll usually need:   * 1 or 2 A levels, or equivalent, for a foundation degree or higher national diploma * 2 or 3 A levels, or equivalent, including maths   **College**  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   You may need:   * 1 or 2 A levels, a level 3 diploma or relevant experience for a level 4 or level 5 course   **Apprenticeship**  You can do a degree apprenticeship as an aerospace engineer.  You'll usually need:   * 4 or 5 GCSEs at grades 9 to 4 (A\* to C) and A levels, or equivalent, for a higher or degree apprenticeship   **Work**  You can join a company as an engineering technician and do training on the job to qualify as an engineer.  **Direct application**  You can apply for jobs directly if you've got qualifications and experience, for example from working in electrical or electronics engineering. |
| **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 * to be able to use a computer and the main software packages competently |
| **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:** | £20,000 Starter to £60,000 Experienced |
| **Working hours, patterns and environment:** | * Typical hours 39 to 41 a week * You could work evenings / weekends occasionally * You could work in an aircraft hangar, on an aircraft, at a client's business, in a factory or in an office. * Your working environment may be cramped. |
| **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 |