# 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
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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:**  | £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.
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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 |