



Career of the Day

Job title: Aerospace Engineer

<p>Job title: Aerospace Engineer</p>	<p>Aerospace engineers design, build and maintain planes, spacecraft and satellites</p>
<p>Entry requirements:</p>	<p>You can do a foundation degree, higher national diploma or degree in aerospace engineering, avionics, or a related subject like:</p> <ul style="list-style-type: none"> • electrical or electronic engineering • mechanical engineering • manufacturing or product engineering • physics or applied physics • software engineering or mathematics <p>Entry requirements You'll usually need:</p> <ul style="list-style-type: none"> • 1 or 2 A levels for a foundation degree or higher national diploma • 2 or 3 A levels, including maths and or physics for a degree – check individual institutions of exact entry requirements. <p>You can do a higher national certificate (HNC) or diploma (HND) in engineering before applying for a job with an aerospace company. Subjects include:</p> <ul style="list-style-type: none"> • Level 4 HNC Diploma in Mechanical Engineering • Level 5 HND Diploma in Aeronautical Engineering • Level 5 HND Diploma in Electrical Engineering <p>Entry requirements You may need:</p> <ul style="list-style-type: none"> • 1 or 2 A levels, a level 3 diploma or relevant experience for a level 4 or level 5 course <p>You can do a degree apprenticeship as an aerospace engineer.</p> <p>Entry requirements You'll usually need:</p> <ul style="list-style-type: none"> • 4 or 5 GCSEs at grades 9 to 4 or equivalent and Further Education qualifications like A levels or BTEC Extended Diploma for a higher or a degree apprenticeship
<p>Skills required:</p>	<p>You'll need:</p> <ul style="list-style-type: none"> • 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.
<p>What you'll do:</p>	<p>Your day-to-day duties will depend on your role but may include:</p> <ul style="list-style-type: none"> • 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
<p>What you'll earn:</p>	<ul style="list-style-type: none"> • Starter: £20,000 • Experienced: £60,000 <p><i>These figures are a guide.</i></p>

Working hours, patterns and environment:	<ul style="list-style-type: none">• 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:	<p>With experience, you could specialise in a particular field like:</p> <ul style="list-style-type: none">• aerodynamics• fuel efficiency• space technology• investigating air accidents <p>• You could also move up to become a project manager or consultant aerospace engineer.</p>