Job title: Automotive Engineer

Job title:	Automotive engineers design, develop, test and build cars and motorbikes.
Routes and Entry requirements:	**University** You'll usually need a foundation degree, higher national diploma or degree, before joining a company training scheme. Relevant subjects include: • mechanical engineering • electrical or electronic engineering • design engineering • manufacturing engineering • automotive engineering A course with a work placement or an internship will be especially useful. You'll usually need: • at least 1 A level, or equivalent, for a foundation degree • between 1 and 3 A levels, or equivalent, for a higher national diploma or degree **Apprenticeship** You could get into this job through a manufacturing engineer degree apprenticeship or product design and development engineer degree apprenticeship. You'll usually need: • 4 or 5 GCSEs at grades 9 to 4 (A* to C) and A levels, or equivalent, for a degree apprenticeship
Skills required:	You'll need: • maths knowledge • knowledge of engineering science and technology • design skills and knowledge • knowledge of physics • to be thorough and pay attention to detail • analytical thinking skills • the ability to use, repair and maintain machines and tools • thinking and reasoning skills • to be able to use a computer and the main software packages competently
What you'll do:	You might work on: • body, chassis and engine systems • electrical and electronic instrumentation and control systems • thermodynamics, aerodynamics and fluid mechanics • fuel technology and emissions • You could work in: • design – turning ideas into blueprints for development and testing, taking into account safety, cost-effectiveness, environmental impact and look • development – building and testing prototypes using computer simulations and physical models to assess components' strengths, weaknesses, performance and safety • production – planning the production run, including redesigning machine tools, equipment and processes to make new parts, monitoring costs and production schedules, and overseeing quality control
What you'll earn:	£20,000 Starter *to* £45,000 Experienced
Working hours, patterns and environment:	• Typical hours (a week) 39 to 41 • You could work evenings, on shifts • You could work in an office, at a research facility or at a manufacturing plant.
Career path and progression:	With experience, you could progress to senior engineer roles, project team management, general management or consultancy.