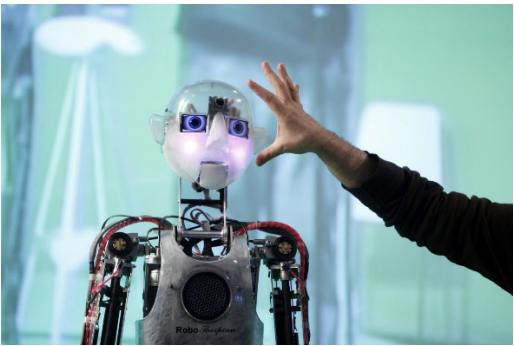


Job Title: Robotics Engineer



Job title: Robotics Engineer	Robotics engineers design and build machines to do automated jobs in industries like manufacturing, aerospace and medicine.
Entry requirements:	You can do a degree or postgraduate qualification in: - artificial intelligence and robotics - mechatronics - robotics engineering - mechanical engineering - electronics engineering - computer science - mathematics You can also work in the development of artificial intelligence if you have a qualification in psychology or cognitive science. Entry requirements You'll usually need: 2 or 3 A levels, including maths and physics - a degree in a relevant subject for postgraduate study You can do a college course, which may help you to find a job as a robotics technician. Relevant courses include: - Level 3 Certificate in Robotics and Automation - Level 4 Diploma in Computing - Higher National Certificate in Electrical or Electronic Engineering - With further training, you can qualify as an engineer. Entry requirements You'll usually need: 4 or 5 GCSEs at grades 9 to 4 for a level 3 course 1 or 2 A levels, a level 3 diploma or relevant experience for a level 4 or level 5 course You could do a degree apprenticeship in a robotics specialism. Apprenticeship examples include: - control and technical support engineering - software development - manufacturing engineering - embedded electronic systems design Entry requirements You'll usually need: 4 or 5 GCSEs at grades 9 to 4 and post-16 qualifications like A levels for a degree apprenticeship
Skills required:	You'll need: - knowledge of engineering science and technology - knowledge of computer operating systems, hardware and software - maths knowledge - design skills and knowledge - excellent verbal communication skills - the ability to use, repair and maintain machines and tools - thinking and reasoning skills - complex problem-solving skills - to be able to use a computer and the main software packages confidently
What you'll do:	Your exact duties will depend on what part of a project you work on but may include: - understanding what customers want to automate - designing processes and parts using computer aided design - building and testing prototypes - analysing data from robot sensors and cameras - finding and fixing faults - researching news ways to use robots and artificial intelligence - demonstrating finished products to customers
What you'll earn:	- Starter: £27,500 - Experienced: £55,500 <i>These figures are a guide.</i>
Working hours, patterns and environment:	37 to 40 hours a week, usually 9am to 5pm (Monday to Friday)

Career path and progression:

- You could become a lead engineer, with overall responsibility for managing a project.
- You could also specialise in a particular area of robotics, for example self-driving vehicles, space exploration, surgical instruments or deep ocean research.