



CAREER OF THE WEEK: Robotics Engineer

What does a robotics engineer do?

Robotics Engineers design and build machines to do automated jobs in industries like manufacturing, aerospace and medicine. With the rapid advances in technology that are taking place, it is one of the most exciting areas of engineering to be working in currently.

Their job involves things like researching what customers want to automate, designing processes and parts using computer aided design, building and testing prototypes, analysing data from robot sensors and cameras, writing technical reports on project progress, risks and issues, finding and fixing faults, researching new ways to use robots and artificial intelligence, and demonstrating finished products to customers.

Some robotics engineers specialise in a particular area, for example self-driving vehicles, space exploration, surgical instruments or deep ocean research.

Technology is constantly advancing so it is a job in which you will need to keep up to date with the latest systems, improvements and trends.

What can I expect to earn as a robotics engineer?

Salaries for robotics engineers generally start around £27,500 per year. This will increase with experience and can exceed over £55,000!

What subjects should I study to become a robotics engineer?

To become a robotics engineer you will need knowledge of engineering, science and technology, knowledge of computer operating systems, hardware and software, good maths knowledge, along with some design skills. Qualifications in maths, English and science are going to be essential. Computer science, design and technology and engineering will also be important.

How can I start my career as a robotics engineer?

There are several different ways that you could become a robotics engineer. You could study a relevant college course, such as mechanical or electrical engineering, which could help you to find a job as a robotics technician. You could start as a robotics technician or junior engineer and study on the job for a related qualification. You could do an apprenticeship or a degree apprenticeship in a robotics specialism like mechatronics, control and technical support engineering, software development or manufacturing engineering. Once the Robotics Engineer degree apprenticeship standard is available you could study for it. You could also complete a degree or postgraduate qualification in artificial intelligence and robotics, mechatronics or robotics engineering.

To research local education and training opportunities that could lead to a career as a robotics engineer, visit our partner website www.logonmoveon.co.uk

Useful websites to find out more about a career as a robotics engineer:

This is Engineering, Robotics Engineer <https://thisisengineering.org.uk/careers/robotics-engineer/>

The Institution of Engineering and Technology <https://www.theiet.org/career/routes-to-engineering/>

The Academy of Robotics <https://www.academyofrobotics.co.uk/>

Oxford Robotics Institute <https://ori.ox.ac.uk/>

National Careers Service <https://nationalcareers.service.gov.uk/job-profiles/robotics-engineer>



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