

SKILLS HULL & EAST YORKSHIRE

INCORPORATING LMI HUMBER

CAREER OF THE WEEK: Electrical Engineer

What does an electrical engineer do?

An electrical engineer is responsible for designing, developing, and testing electrical equipment, systems, and components. Their job duties may include:

- Developing and testing new electrical systems or improving existing ones: designing and testing electrical components, such as circuit boards, transformers, and motors, to ensure they meet safety standards and work efficiently.
- Project management: working in project teams, where they may be responsible for managing projects from start to finish. This may involve coordinating with other engineers, technicians, and contractors to ensure projects are completed on time and within budget.
- Electrical safety: responsible for ensuring the safety of electrical systems and equipment. This may involve conducting safety inspections, developing safety procedures, and providing training to other personnel.
- Troubleshooting: Electrical engineers must be skilled in troubleshooting electrical systems and equipment when problems arise. They use their knowledge of electrical theory and principles to diagnose problems and find solutions.
- Research and development: may be involved in research and development of new electrical technologies. This may involve testing and evaluating new materials, components, and systems to determine their effectiveness and potential applications.



An electrical engineer may work in a variety of industries, including construction, manufacturing, telecommunications, and energy.

What can I expect to earn as an electrical engineer?

The starting salary for an electrical engineer is typically between £20,000 and £28,000 per year. The average salary is between £30,000 and £45,000 per year. Senior electrical engineers can earn over £80,000 per year.

What subjects should I study to become an electrical engineer?

Useful subjects to study include maths, science, engineering, IT, design & technology, and product design.

How can I start my career as an electrical engineer?

There are several ways to become an electrical engineer. One of the most common is to obtain a degree in electrical engineering or a related field. You can study at a university or college that offers electrical engineering programs, which typically take three to four years to complete. You could also do a Level 4 and 5 Higher National Diploma in Electrical and Electronic Engineering at college before looking for work. Another way to become an electrical engineer is through an apprenticeship program, which combines on-the-job training with classroom instruction. Apprenticeships typically take two to four years to complete and can lead to a recognised qualification, such as an NVQ or BTEC. You can also become an electrical engineer by gaining relevant work experience in the industry. This can include participating in internships or seeking out entry-level jobs to gain practical skills and exposure to different areas of the industry.

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

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

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

The Engineering Council <https://www.engc.org.uk/>

EngineeringUK <https://www.engineeringuk.com/>

Women in Manufacturing & Engineering <https://greenporthull.co.uk/jobs-training/women-into-manufacturing-and-engineering>

How to become an electrical engineer, Ciaran's story-

<https://www.bbc.co.uk/bitesize/articles/zvqyqp3>

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



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