What jobs and activities might graduates do?

Graduates with this degree are employed in a range of jobs — see some examples below.

Note: This list is not exhaustive, and some jobs may require further study, training or experience. It is recommended to start with the section 'How can I gain a sense of career direction?'

Electrical engineer, graduate electrical engineer

- Design systems to generate, distribute and manage electricity
- Test electricity systems and resolve problems
- Manage electrical infrastructure assets
- Undertake simulation studies to analyse performance

Electronics engineer

- Research, develop and design electronic equipment and systems e.g. circuits and software for medical devices, mobile phones, automated control systems, navigation systems

Power engineer, power systems engineer, power electrical engineer

- Plan and develop systems that supply power
- Test and maintain these power systems
- Research alternative sources of power and methods of conveyance

Software engineer, graduate software engineer

- Analyse customer needs, evaluate computer software and research new technologies
- Identify solutions and develop software programs for new products
- Manage software development projects

Communications engineer

- Design and develop software for improved and more reliable communications
- Design new communications data algorithms

Hardware engineer

- Design the physical parts of computer systems
- Research and test hardware components
- Consider the costs of hardware to end users

Research engineer, research and design engineer

- Evaluate and develop new systems and equipment in the electronics industry
- Make recommendations to resolve problems
- Support general organisational operations

Biomedical engineer

- Develop electrical and electronics systems for improved healthcare
- Design new algorithms for medical imaging

Electrical / electronic technician

- Interpret instructions from an engineer and ensure these are implemented correctly
- Install and maintain power-using equipment

Test analyst, validation tester

- Design tests to check software/systems
- Identify defects and bugs, and suggest fixes
- Record issues and track solution results

Network engineer, network assets engineer

- Design and develop computer networks, infrastructure and systems for phone calls, internet access, TV and radio broadcast
- Ensure designs are implemented correctly

Project engineer, project manager

- Manage project plan, timelines, costs, and compliance
- Manage procurement, purchasing, and contracts
- Liaise with project staff and clients

Design engineer, junior design engineer

- Use software/technology to develop new ideas
- Design and test prototype devices
- Liaise with suppliers and manufacturers

Radio frequency engineer

- Forecast future traffic resources needed
- Plan radio network changes and improvements
- Integrate front-end RF systems into other systems like aviation or aerospace

Examples of other job titles and careers include:

- Agricultural technology engineer
- Automation engineer
- Cloud engineer
- Signals engineer
- Firmware engineer
- Performance and data engineer
- Building services / compliance engineer
- Factory engineer
- Patent adviser
- Product development engineer
- Process engineer.

Further study options

Postgraduate study options are available in Electrical and Electronic Engineering up to a master's and PhD level. Postgraduate study options can include areas from power and electronic systems, wireless research, renewable energy, to nanotechnology engineering.

Research opportunities/partnerships may be(r)12.1 (enew)12

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