



# Harness the **power** of a changing world

## Bachelor of Engineering (Electrical and Electronic) (Honours)

Electrical and electronic engineers play a role in almost every aspect of modern life, from the circuits inside your smartphone to the energy systems that power our cities. This degree teaches you how to design, develop and maintain electrical and electronic systems of all shapes and sizes, and qualifies you to commence practice as a professional electrical and electronic engineer.

In this degree you will:

- Study the fundamentals of engineering, including applied maths, physics, statics and systems design
- Develop in-depth skills in electrical and electronic engineering theory, standards and practice
- Complete specialist courses in circuit design and analysis, electrical power systems (including renewable energy), robotics and automation, computer programming and more
- Understand the social, economic and environmental dimensions of engineering, and the importance of sustainable development
- Develop advanced problem solving, communication and project management skills

### Exemption for first year Mathematics

Students who enter the program having achieved a 'Very High Achievement' in Maths C in secondary school may be eligible for an exemption for the courses **MTH103** Introduction to Applied Mathematics and **MTH104** Introductory Calculus. On

application, and approval, to Student Services and Engagement, students may substitute two engineering-relevant courses in order to fulfil the requirements of the degree. Students are advised to consult with the program coordinator when selecting substitute courses.

### Post-admission requirements

Students must complete 60 days of suitable engineering work experience.

### Career opportunities

Electrical and electronic engineers work on the design, manufacture, testing and maintenance of electrical and electrical systems across a range of industries, including infrastructure construction, data communications, aviation, mining, power generation and transmission (including renewable energy and smart grids), automotive, automation, robotics and domestic appliances.

### 2021 Graduate Outcomes Survey

95% of USC engineering graduates find employment within four months of finishing study.

### Membership

Engineering students are eligible for free membership to Engineers Australia. Once their degree is completed they are eligible for Graduate membership.

### Accreditation

This program is currently undergoing provisional accreditation by Engineers Australia.

### LOCATION

Moreton Bay

### QTAC CODE

014711

### DURATION

4 years full time or equivalent part time

### COMMENCE

Semester 1 or Semester 2

### RECOMMENDED PRIOR STUDY

: Specialist Maths; and Physics or Chemistry

### PREREQUISITES

English (Units 3 and 4, C), Maths Methods (Units 3 and 4, C)

### SCHOLARSHIPS

Scholarships can give you money and other financial support to help you while you study. Find out more at [usc.edu.au/scholarships](http://usc.edu.au/scholarships).

### MORE INFORMATION

Contact Student Central  
[information@usc.edu.au](mailto:information@usc.edu.au)  
+61 7 5430 2890

[usc.edu.au/sc404](http://usc.edu.au/sc404)