



## Bachelor of Engineering (Honours) (International students)

Program code	Entry requirements	Prerequisites
1546	6.5	NIL
Available at	IELTS (Academic) <a href="#">(more)</a>	Assumed knowledge
Gold Coast Campus	<b>CRICOS code</b>	Any General or Applied English subject (Units 3 and 4, C)
Duration	090583D	Mathematical Methods (Units 3 and 4, C)
4 years full-time	<b>Commencing in</b>	<a href="#">Apply Now</a>
Credit points	Trimester 1 and Trimester 2	
320		
Indicative fee		
\$41,500.00* per year <a href="#">(more)</a>		
* 2024 indicative annual fee		

### About this program

This is your chance to have an impact on the way the world works. You could have the opportunity to make your mark on major global systems and infrastructure or be at the forefront of localised urban projects. When you choose this degree, you will be engineering from day one.

In your first year, you will develop a strong foundation in basic science and engineering principles. You will study a range of engineering areas, letting you decide which area interests you the most. We're strong believers in 'learning by doing', so this degree has a strong practical focus. You will learn from teachers who are passionate about engineering and the difference it makes in the world, so you will get to experience their energy in your studies.

#### Industry and expert connections

In your second year, you will choose your preferred major so you can focus on the area you feel passionate about. Learning from industry kicks into another gear, and you will participate in genuine engineering projects. You will also hear from the very best, with guest lecturers explaining their vision and the results of significant projects. You will have direct access to them for questions and advice as part of our smaller more personalised experience.

Entering your final year, you will take your skills and work with one of our industry partners here or overseas, undertaking a trimester-long project through our capstone Industry Affiliates Program.

#### Graduate outcomes

As a graduate you will possess the hands-on skills that employers tell us they are seeking. Plus, because this is an accredited degree, you will have met Engineers Australia stage one competencies. This degree is also internationally recognised, which means you can put your skills into practice right around the world.

#### Majors

- Civil Engineering (Nathan, Gold Coast)
- Electronic Engineering (Nathan)
- Electronic and Energy Engineering (Nathan)
- Electronic and UAV Engineering (Nathan)
- Electrical and Renewable Energy Engineering (Gold Coast)
- Electrical and Electronic Engineering (Gold Coast)
- Environmental Engineering (Nathan)
- Mechatronics (Nathan)
- Mechanical Engineering (Gold Coast, Nathan)

#### Global Mobility

Students may be eligible to do an international field trip, organised by the academic staff. This may count towards a component of the degree, depending on the structure.

## My attendance during the program

### Attendance information

The Bachelor of Engineering (Honours) program is offered full-time at the Gold Coast and Nathan campuses and delivery is via internal mode (on-campus) with a Trimester 1 and 2 intake only.

This program includes compulsory study in Trimester 3. Students who commence in Trimester 2 should note that you will be required to study in Trimester 3 for the first year of the program.

If you are an International student on a student visa, you must ensure that you enrol in a way that will allow you to complete your enrolment within the expected program duration as stated on your Confirmation of Enrolment (CoE).

### Work-integrated learning

An integrated program of exposure to industry practice will be built into the program. Practising engineers will be directly involved in the learning and teaching process, particularly through involvement with laboratory and tutorial sessions. Staff will draw upon their industry/professional experience in choosing their laboratory activities, their projects and/or case studies and problems. Field trips will enhance awareness of the current industry/professional practice. The final year Professional Practice course provides a WiL experience, integrating technical expertise with the practical issues of professional/industry practice. A co requisite of this course is the completion of a minimum of 12 weeks (60 days) of approved experience in an engineering practice environment (or a satisfactory alternative).

The pinnacle of our work-integrated learning experience is the 40 credit point Industry Affiliates program (IAP) wherein students will undertake a trimester-long capstone project. Students are encouraged to conduct their IAP-Thesis project in industry and our IAP office will assist in finding placements for students who might have been unable to find their own placement. Total work placement (hours): 408.

## My career opportunities

### My career opportunities

#### Key employment sectors\*

- Civil engineering
- Communications
- Energy
- Technology
- Medical
- Information Technology

#### Potential job outcomes

- Civil engineer
- Electronic engineer
- Electrical engineer
- Mechanical engineer

\*Source: *Australian Government Job Outlook*

Your future career will be guided by your choice of major. Here's an overview of where your choice could take you:

#### Civil Engineering (Gold Coast and Nathan)

Civil engineers support the design and development of essential services and manage and improve the built environment. By studying civil engineering, you will develop your knowledge in the planning, design and construction of buildings and infrastructure. Demand for civil engineering professionals has grown and is expected to continue to be an area of high demand. You could find employment in jobs such as chief civil engineer, construction engineer, municipal engineer, structural engineer, transport engineer, water supply distribution engineer, project manager and consulting engineer. If you want a career creating tomorrow's cities, then this major is for you.

#### Electronic Engineering (Nathan)

In our modern world, we are surrounded by technologically advanced electronic devices. The phone in your pocket, your computer, or the jet airliner flying overhead only exist because of advanced electronic circuits developed by electronic engineers. In this major, you will focus on the development, construction and design of electronic parts and systems, ranging from everyday items to applications for large corporations and industries. You could find employment in areas such as energy production, transport control systems development and communications, including satellite navigation, broadband services and telecommunications.

**Electronic and Energy Engineering (Nathan)**

The energy sector is a fast-advancing engineering discipline, with huge investments expected in the coming decades. You will be prepared for a career in areas such as electronics design and fabrication, power transmission, renewable power generation, solar energy systems, wind energy systems, electric vehicles, efficient lighting and energy research.

**Electronic and UAV Engineering (Nathan)**

As Unmanned Aerial Vehicles (UAVs) are rapidly finding application in many areas, the need for both certified pilots and for engineers to design and maintain these vehicles is on the rise. The Electronic and UAV Engineering major offers UAV flight training and professional pilot licence theory. Graduates will be employable as UAV pilots, UAV designers, engineers in the aviation and general electronics industries. This degree is also a pathway for students wishing to be a Pilot Engineer but with a private rather than commercial licence.

**Electrical and Electronic Engineering (Gold Coast)**

Electrical and electronic engineers work with senior administrators, civil and mechanical engineers, computer scientists and various workers in the business, building and construction industries. The essential nature of an electrical engineer's role places them in the position to influence the development and application of new and emerging technologies. This includes the fast-growing energy industry. You could work to incorporate locally generated renewable energy resources into our more conventional supply systems, helping to reduce costs, save energy and cut greenhouse gas emissions.

**Electrical and Renewable Energy Engineering (Gold Coast)**

Australia has a plan to reach net-zero by 2050 and renewable energy (e.g. wind and solar) is the key to unlocking carbon emission reduction. Thus, the investment in renewable energy generation has increased dramatically over recent years in Australia, which also creates a big job market in the renewable energy integration and energy storage sector. Renewable energy will bring opportunities to reduce carbon emissions while it also brings technological challenges to the security of the existing power grid. By studying renewable energy integration courses, you will master the renewable energy integration technologies, methods of analysis, and solutions to mitigate the new challenges. The main job markets are Australian Energy Market Operator, transmission/distribution network service providers, power industry consulting companies, solar/wind farm commissioning companies, and renewable energy development/construction companies.

**Environmental Engineering (Nathan)**

Environmental professionals with strong ecological social science backgrounds are in demand both in Australia and internationally. You will find opportunities in government departments such as Transport and Main Roads, Natural Resources and Mines, Department of Science, IT and the Arts (DSITIA) along with Environment and Resource Management. You will also enjoy opportunities with consulting firms in the construction, mining, oil, smelting and manufacturing industries.

**Mechanical Engineering (Gold Coast and Nathan)**

Mechanical engineering is the most diverse of all the engineering disciplines. As a graduate, you will be qualified for a career in medical, automotive, aerospace, renewable energy, marine and sports-related sectors.

**Mechatronics (Nathan)**

With specialised skills across both electronic and mechanical engineering, as a graduate you will be prepared for work in the design, development and production of smart engineering systems and products. You will find career opportunities across many industries including manufacturing, mining, transport and defence and emerging fields such as medical and assistive technology smart cities, precision agriculture and robotics.

**Program accreditation****Program accreditation**

In Australia, professional accreditation of entry to practice engineering programs is the responsibility of Engineers Australia and is normally carried out on a five-yearly cycle. Griffith University underwent this review in August 2015.

Accreditation ensures academic institutions consistently meet national and international benchmarks and engineering graduates of an accredited program are assured membership with Engineers Australia at the relevant career grade and enjoy reciprocal privileges by equivalent professional bodies overseas.

Countries such as the USA, United Kingdom, Hong Kong (SAR), New Zealand, Canada, South Africa and others that are co-signatories to international agreements on joint recognition offer international recognition.

The Washington Accord, the Sydney Accord and the Dublin Accord recognise the substantial equivalence of accreditation systems and accredited programs across international boundaries at the Professional Engineer, Engineering Technologist and Engineering Associate levels respectively. Please refer to the [International Engineering Alliance \(IEA\)](#) website for more details.

Please see the [Engineers Australia](#) website for the most recent list of accredited programs.

**Pathways to further study**

## Pathways to further study

The Bachelor of Engineering (Honours) program provides a pathway to research higher degrees with direct entry into doctoral programs for students who graduate with First Class Honours. It also provides the opportunity for gifted graduates to apply for scholarships and awards.

## What are the fees?

### International students

An International student is one who is not:

- an Australian or New Zealand citizen or
- a Pacific Engagement visa holder or
- a person who has Australian permanent resident status.

### Indicative annual tuition fee

The indicative annual tuition fee is calculated based on a standard full-time study load which is usually 80 credit points (two full-time trimesters).

The indicative annual tuition fee is based on current conditions and available data and should only be used as a guide. These fees are reviewed annually and are subject to change.

### Tuition fees

- An International student pays tuition fees.
- Students are liable for tuition fees for the courses they are enrolled in as at the census date.
- The tuition fee for students who commence their program prior to 2014 is charged according to the approved program fee for the trimester in which the student commenced the program.
- The tuition fee for students who commence their program from 2014 onwards is charged according to the approved program fee for the trimester in which the student is enrolled.

### Program fees for the Bachelor of Engineering (Honours) (1546)

Fees for this program can be found on the Programs and Courses website in the "Overview and fees" section. Select your commencing year to view your fees.

### Changing programs

If an International student changes to a different program they will be subject to the approved program fee for the trimester in which they are enrolled.

### Permanent resident status

If an **undergraduate student** obtains permanent resident status in Australia after commencing study in a program, and the student can provide evidence of permanent resident status prior to the census date (of the trimester in which they are enrolled), the student will be provided with a domestic fee-paying place.

The student may then apply for a Commonwealth supported place at the next admission period provided that the student satisfies the conditions for transfer from a domestic fee-paying place to a Commonwealth supported place as set out in the [Undergraduate Programs Admission Policy](#).

If a **postgraduate student** obtains permanent resident status in Australia after commencing study in a program, and the student can provide evidence of permanent resident status prior to the census date (of the trimester in which they are enrolled), the student will automatically be considered for a Commonwealth supported place (subject to availability) or a domestic fee-paying place as applicable for the program.

If a **research student** obtains permanent resident status in Australia after commencing study in a program, and the student can provide evidence of permanent resident status prior to the census date (of the trimester in which they are enrolled), the student will automatically be considered for a Commonwealth Government Research Training Program (RTP) Fee Offset or a domestic fee-paying place as applicable for the program.

### Further information

- [Fees and Charges Procedure](#)
  - 3.6 - Fees for International Students
  - 3.9 - Administrative and Miscellaneous Charges
  - [Fees and Charges Schedules](#)
- [Cost of studying in Australia](#)

### Additional fee information

**Additional costs**

Throughout your program you may be required to pay for the following items:

- personal protective equipment; steel-cap boots required for some site visits