Engineering at Federation University

<table>
<thead>
<tr>
<th>Rank</th>
<th>Category</th>
<th>Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>OVERALL SATISFACTION*</td>
<td></td>
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<tr>
<td>#1</td>
<td>TEACHING SCALE*</td>
<td></td>
</tr>
<tr>
<td>#1</td>
<td>STUDENT SUPPORT*</td>
<td></td>
</tr>
</tbody>
</table>

* Australian Federal Government, QILT.edu.au, Australian universities, undergraduate level, May 2019

Science and Technology Building, Mt Helen Campus, Ballarat
Wind turbines that reduce global warming. Robots that rove the surface of Mars. Underwater tunnels that connect different countries. Engineers build extraordinary things.

With a qualification from Federation University, you can too.

Federation University Australia offers many areas of engineering to pursue. Our undergraduate degrees focus on flexibility and our post-graduate programs allow you to become an accredited specialist engineer.

At the Mt Helen Campus (Ballarat) you will find the world-class science and engineering precinct, which reflects the importance of the built environment to the learning experience. The laboratories are equipped with current and relevant technologies that allow students to develop the practical skills demanded in a professional engineering working capacity. Equally impressive are our new classrooms, new laboratories, and new mechatronics facilities at the Gippsland Campus (Churchill). All specifically designed to best facilitate hands-on experience and skill development.

Our academic staff have strong industry connections and experience, providing excellent opportunities for professional engagement. In most cases our engineering programs are professionally accredited by Engineers Australia, the designated authority for assessing skills and competencies related to engineering occupations in Australia.

engineersaustralia.org.au
Bachelor of Engineering (Electrical and Information Engineering) (Honours)

Electrical and Information Engineering combines different aspects of engineering. You’ll develop a comprehensive overview of electrical engineering fundamentals – electrical circuits, signals and systems, energy conversion, power electronics, power systems, embedded and control systems and renewable energy – with information engineering – big data analytics and computer modelling making you highly employable across a range of industries.

CAREER OUTCOMES
Electrical engineer; Electronic engineer; Engineering professional; Industrial engineer and Production or Plant engineer

LOCATION
Mt Helen Campus (Ballarat)

DURATION
4 years

Master of Engineering Project Management

Engineering Project Management will develop your proficiencies as an engineering manager and leader. This postgraduate course aims to produce engineers with in-depth knowledge and skills who are able to plan and execute major projects across the construction, infrastructure development and energy sectors.

CAREER OUTCOMES
Project engineer; Project manager; Contracting manager; Team leader

LOCATION
Mt Helen Campus (Ballarat)

DURATION
2 years

Master of Engineering Technology (Mechatronic Systems Engineering)

In a nutshell, mechatronic systems engineers design products and processes using their mechanical, electronics and computing knowledge. While there are a lot of skills you’ll need to learn, there are just as many opportunities out in the field in areas such as manufacturing and process automation, transportation, power production, mining and resources, agriculture and forestry.

CAREER OUTCOMES
Automation engineer; Control systems engineer; Maintenance engineer; Plant design and management engineer; Sales engineer; Self-diagnostic machinery design engineer; Automotive systems engineer; Data communication and networks officer; Mechanical design engineer; Process and packaging design engineer; Scientific equipment designer; Avionics test engineer; Engineer; Infrastructure engineer; Mechatronic project engineer; Robotics and process automation engineer; Security systems designer

LOCATION
Gippsland Campus (Churchill)

DURATION
2 years

Master of Engineering Technology (Renewable Energy and Electrical Power Systems)

Develop in-depth knowledge across these interdisciplinary domains of renewable energy, Internet of Things (IoT), smart grid and electrical power systems. Aimed at electrical engineers who wish to broaden their skill sets and develop their knowledge and abilities in the design of renewable and the transmission of electrical power.

CAREER OUTCOMES
Electrical Engineer; Power Systems Engineer; Renewable Energy Engineer; Consulting Engineer in Electrical Engineering/Renewable Energy Engineering; Electrical Utility Engineer

LOCATION
Mt Helen Campus (Ballarat)

DURATION
2 years
Established engineering programs

**Civil Engineering**
From bridges and roads, to airports and railways, civil engineers plan, design and test private and public structures. You’ll develop the skills and knowledge needed to identify suitable building materials, and make sure structures like these are built in a safe, economical and environmentally friendly way.

**Mechanical Engineering**
Combining physics with mechanical science, you’ll learn how to design and construct all forms of incredible systems – from robotic devices and heat transfer processes, to thermodynamic and combustion systems.

**Mining Engineering**
Mining engineers work in the field as consultants, advisers and leaders. You’ll work with geologists to plan the safest and most cost-effective ways to extract ore bodies, mineral deposits, non-metallic ores and fuels from the ground, rivers and sea bed. You’ll also be responsible for protecting the people and environment within mining areas. Our graduates are in high demand in both underground and surface mines.

**Maintenance and Reliability Engineering**
Across almost every sector, it’s expected that engineering products and systems work for longer and more effectively. Naturally, this has made professional asset management a powerful tool in improving profitability. Our courses are postgraduate only, designed for managers, engineers and technical staff working in the operation, maintenance and reliability improvement of industrial, public sector and defence systems. You’ll be looking at areas such as terotechnology and lifestyle costs, asset management and industrial techniques, risk engineering, machine condition monitoring and reliability engineering.
<table>
<thead>
<tr>
<th>Study Type</th>
<th>Location</th>
<th>Duration</th>
<th>CRICOS</th>
<th>ANNUAL FEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>U Bachelor of Engineering (Electrical and Information Engineering) (Honours)</td>
<td>Ballarat</td>
<td>4 years</td>
<td>0100639</td>
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<tr>
<td>P Master of Engineering Project Management</td>
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<td>085618G</td>
<td>$28,800</td>
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<td>U Bachelor of Engineering (Mining) (Honours)</td>
<td>Ballarat</td>
<td>4 years</td>
<td>085619F</td>
<td>$28,800</td>
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<tr>
<td>U Bachelor of Mechatronic Systems Engineering (Honours)</td>
<td>Ballarat</td>
<td>4 years</td>
<td>085620B</td>
<td>$28,800</td>
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<tr>
<td>P Graduate Certificate in Maintenance Management</td>
<td>Online*</td>
<td>1 year</td>
<td>-</td>
<td>$14,400 per Certificate</td>
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<tr>
<td>P Graduate Diploma in Mining</td>
<td>Ballarat</td>
<td>Online*</td>
<td>2 years</td>
<td>085622M</td>
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<tr>
<td>P Graduate Diploma in Engineering Maintenance Management</td>
<td>Online</td>
<td>1 year (2 years part-time)</td>
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<tr>
<td>P Master of Engineering Technology (Civil Engineering)</td>
<td>Ballarat</td>
<td>2 years</td>
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<td>Ballarat</td>
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<td>Ballarat</td>
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<tr>
<td>P Master of Maintenance and Reliability Engineering</td>
<td>Online</td>
<td>2 years</td>
<td>-</td>
<td>$28,800</td>
</tr>
</tbody>
</table>

**Undergraduate bachelor degree**

**Postgraduate studies**

Higher Degrees by Research visit federation.edu.au/research

*Online learning is only available for international students not studying on student visas*

**ACADEMIC ENTRY REQUIREMENTS**

**Bachelor Degrees:** Successful completion of Australian Year 12 with final-year mathematics courses; or overseas equivalent.

**Post-Graduate Studies:** Successful completion of a recognised 3 or 4 year engineering bachelor degree in the relevant specialisation (major field) with credit average; awarded by an Australian university; or a recognised overseas equivalent.

**English Language Requirements:** Overall IELTS band score of 6.0; with no band less than 6.0; or equivalent.
How to apply

Step 1. Find the course you wish to study

- For undergraduate and postgraduate courses visit study.federation.edu.au/international
- Check you meet the academic entry requirements
- Check you meet the English language requirements

Step 2. Apply

Online applications are the preferred method

- Visit federation.edu.au/international/study-at-feduni/apply
- Follow the instructions and ensure you have attached all relevant supporting documents.
- A checklist of documentation required is available at federation.edu.au/international/prepare

Note: Be aware of cut-off dates.

Step 3. Assessment

Your application will be assessed by our team

- English language requirements
- Academic entry requirements

Step 4. Offer Made

Congratulations!

You will be sent an International Student Offer and Acceptance Pack that includes:

- Letter of Offer
- Information for accepting your offer
- GTE and/or financial assessment forms*

*Sometimes, international students will be required to complete a pre-visa screening process as a condition of their offer under the requirement of the Simplified Student Visa Framework (SSVF). The requirements will depend on a number of factors.

Refer to federation.edu.au/SSVF for more information.

Step 5. Accept and Payment

Once you have provided all documentation and met all conditions, including passing SSVF Assessment. You will need to pay the required fees and we will issue you with an electronic Confirmation of Enrolment (CoE).

Note: Payments to FedUni must be made via Western Union through your StudyLink application.

Step 6. Visa application with CoE

You will need your CoE to apply for your Australian student visa.

More information on the visa application process is available at immi.homeaffairs.gov.au

Note: Make sure you plan in advance to get your visa in time.

Step 7. Prepare to Arrive

We will send you an International Student Support Guide to help you understand what to expect.

Flights

Make sure you arrive in time to attend the compulsory International Student Orientation Program that is held in the weeks before semester commences.

Accommodation

Check out the offers from FedUni Living – on campus accommodation in Ballarat and Gippsland.

Transfers

Take advantage of airport pick up services from FedUni Living if you are going to the Ballarat or Gippsland campuses.