

BACHELOR OF ENGINEERING (ELECTRICAL AND RENEWABLE ENERGY) HONOURS

8 GREAT REASONS TO STUDY THIS COURSE

- 1** A **versatile degree** that leads to employment in a variety of fields.
- 2** **Renewable energy is a growth industry** with solid employment prospects.
- 3** Learn about **photovoltaics, wind, biomass, hydro** and **geothermal energy**.
- 4** Learn in **purpose-built** industry-grade laboratories.
- 5** **Get practical hands-on learning** during the course and in the compulsory engineering practicum unit.
- 6** Learn from industry professionals with a **keen interest in renewable energy**.
- 7** **Affordable and quality education**.
- 8** ECU is ranked in the **world's top 175 universities for Engineering** (Times Higher Education 2021).

DEMAND FOR RENEWABLE ENERGY JOBS IS GROWING



50% renewable electricity by 2030 would create more than **28,000 jobs nationally**.

Source: Climate Council Australia, Renewable Energy Jobs: Future Growth in Australia www.climatecouncil.org.au/resources/renewablesreport

INDUSTRY GROWTH



Annual growth in Engineering Vacancies in **Western Australia Jan - Dec 2020 was 15%** - amongst the highest recorded in Australia.

Source: Engineers Australia: Australian Engineering Employment Vacancies Trends, 2020

AVERAGE EXPECTED SALARY



\$80-\$130K PER ANNUM
WITH POTENTIAL TO INCREASE

Source: Hays Salary Guide FY21/22, Australia and New Zealand

EMPLOYMENT OPPORTUNITIES

Electrical power has historically been one of the most in-demand streams of engineering, with employment opportunities in all sectors of industry including utilities, mining, oil and gas, transportation, manufacturing, production and building management. The Electrical and Renewable Energy program combines strong elements of renewable energy generation, integration and management into the Electrical Power stream, opening up employment opportunities even further within the rapidly growing and increasingly important renewable energy sector. Graduates can work as electrical power engineers in the areas of power generation, distribution and transmission, but they can also work in the broader renewable energy sector as consultants for industrial and commercial enterprises.

WORLD-CLASS ENGINEERING FACILITIES

Study in world-class labs that have been built in collaboration with industry. One of the most valuable things our engineering students experience from the beginning of their course is working hands-on in purpose-built labs. ECU's renewable energy laboratory incorporates a wide variety of different types of solar panels and inverters, a solar thermal system, a full-scale wind turbine, a micro hydro simulation station, and battery and hot water storage systems.



"My interest in renewable energy engineering made me choose ECU with the goal to develop myself as a professional engineer. "

The ECU learning experience is based on academic and intellectual growth and this brought out the best in me. I believe ECU is the best choice for a student looking to develop skills to get into the workforce.

My engineering practicum (work placement) was rewarding. It was my first time being exposed to the Australian workforce where I discovered the importance of having a strong work ethic. I learnt to put forward my viewpoints and to work to deadlines.

Along with theory and practice, skills also learnt during my time at ECU included time management and research. My greatest challenges since graduating have been adapting to a professional environment, interacting with clients, and solving issues to satisfy my customers.

My advice to prospective students is that the part-time work you do is very beneficial, especially that involving customer service. It's my opinion that companies in Australia value how you interact with your customers and work under pressure.

WAQAS TAIMOOR

Bachelor of Engineering (Electrical and Renewable Energy) Honours graduate and Graduate Electrical Engineer at Western Power

FAST FACTS

- o **Course Code:** W21
- o **Course CRICOS Code:** 092816J
- o **Duration:** 4 years full-time
- o **Location:** Joondalup Campus or online
- o **Intake:** Semester 1 (February) and 2 (July)
- o **ECC Pathway:** Yes



ECU ranked 151-175 for Engineering (Times Higher Education 2022)



INDUSTRY PARTNERS

This course is developed in close consultation with industry and your study will include a mandatory 12 week work placement.



Life Is On



SCHOLARSHIPS

As an international student you can apply for a range of scholarships to help you with study or living costs.

➤ www.ecu.edu.au/scholarships/offers

MORE ABOUT ECU

To learn more about our fantastic university, life in Western Australia and lots more, visit our web page.

➤ ecuworldready.com.au/international