



Women in Engineering Program

Creating positive change for the world

There are many diverse opportunities that a career in engineering can lead you. You can shape the digital future with software engineering, solve tomorrow's challenges in new and novel ways through design thinking, or apply your skills in developing affordable and sustainable solutions through humanitarian engineering.

No matter what engineering path you're set on, we'll show you how to embrace the challenges of a changing world - in a way that benefits your career, industry, and communities all over the world.

University-led and industry supported, The University of Queensland (UQ)'s Women in Engineering Program (WE) inspires young women to consider a rewarding career in engineering.

Through hands-on activities and workshops, interactive presentations, digital resources, and fun events, WE educate female high school students, teachers and parents about engineering and provide support and industry connections for current students at UQ.



Women in Engineering Program

An engineering degree can lead to:



Revolutionised healthcare

Engineers are essential to our health

Biomedical engineers bridge the gap between technology, medicine, and science. Depending on their area of expertise, they use electrical engineering to create diagnostic devices and machines such as MRI's and ultrasounds; chemical engineering to develop bioprinted patient-specific tissues and organs, devices to detect and treat illnesses before they impact our health, and the large-scale manufacture of immune cells to fight cancer; or mechanical engineering to develop prosthetic limbs, artificial valves and surgical equipment.

Chemical and bioprocess engineers combine the core principles of chemical engineering and biology for scalable production of medicines, such as vaccines during pandemics, foods, and beverages.



A sustainable future

Engineers are driving innovation

Civil engineers plan, design, construct and maintain infrastructure such as buildings, dams, airports, and transport networks. They protect and improve the natural environment, while also meeting the changing needs of society.

Environmental engineers are responsible for ensuring the resilience of our natural ecosystems and urban environments.

Mechanical, civil and mining engineers source critical minerals for a sustainable future by employing advanced technologies and environmentally responsible practices to ensure efficient extraction and utilisation.

Electrical, software, and mechanical engineers are integral to the development of power and renewable energy sources that will help meet renewable energy targets.



“As a child hearing about my grandmother’s pacemaker, I was always fascinated with the connection between human health and medical devices. The idea of a machine that would be able to detect when my grandma’s heart would fail and then be able to start it again without human interference was so intriguing. Therefore, when researching career pathways, I knew that engineering would fit all the criteria for my future career.”

I chose UQ because I was very impressed by the Women in Engineering program and the support that it provided. I knew that going into a male-dominated space would be challenging, especially graduating from an all-girls’ high school, and therefore having specific support for women was really important to me.”

Jasmine May

Bachelor of Engineering (Honours)
(Chemical)

Meet all of our student leaders at
eait.uq.edu.au/we/student-leaders



The University of Queensland is the university of choice for women studying engineering in Queensland

Proudly supported by our program partners:



CREATE CHANGE



For further details contact:
we@eait.uq.edu.au
eait.uq.edu.au/we
[instagram.com/womenin_engineering](https://www.instagram.com/womenin_engineering)



Podcast:
eait.uq.edu.au/what-is-engineering-podcast