

# UQ Women in Engineering Program

Creating positive change for the world around us

**There are many diverse opportunities that a career in engineering can lead you. You can shape the digital future with software engineering, solve big data challenges with computing and data science, 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) 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.



# UQ Women in Engineering

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

Chemical engineers apply new approaches and big-picture thinking to reduce waste and energy consumption, develop sustainable processes for water sanitation and wastewater removal, and transform raw and recycled materials into useful products.

Electrical and mechanical engineers are integral to the development of power and renewable energy sources that will help reduce our impact on climate change.



*“When I was in Year 12, I was unsure what career I wanted to pursue. I loved maths and science, as well as the feeling of accomplishment when you solved a difficult problem. I knew I wanted to continue solving problems and provide solutions to real life issues that society could benefit from.*

*When an engineer visited my school, my eyes were opened to the world of engineering and the positive impact I could have on society. Being a woman in engineering has been very rewarding and the support provided by the UQ Women in Engineering program has been nothing short of spectacular. I have never looked back since choosing engineering as a career.”*

**Kathleen Cox**  
Bachelor of Engineering (Honours) (Chemical) /  
Master of Engineering

Meet all of our student leaders at [eait.uq.edu/we-student-leaders](http://eait.uq.edu/we-student-leaders)



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

Proudly supported by our program partners:



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For further details and information:

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