# Robotics and Artificial Intelligence

## Future-focused postgraduate programs



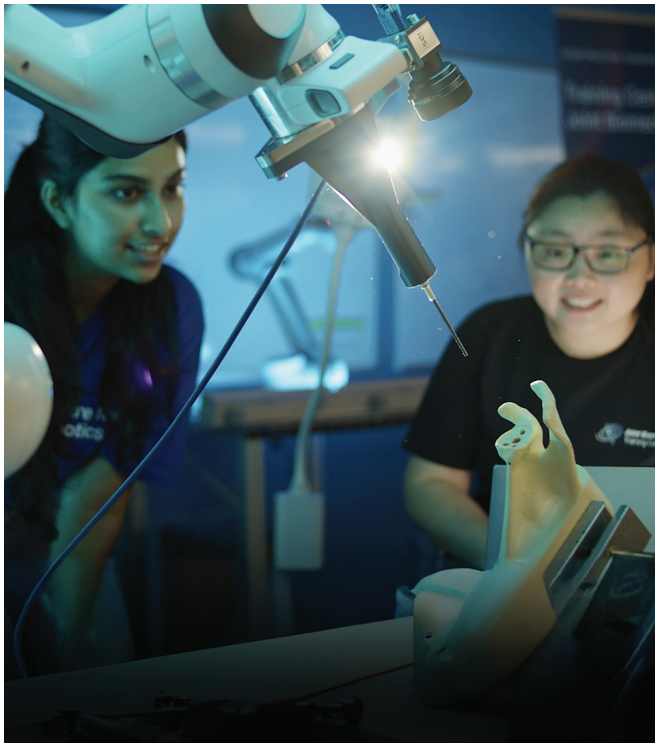
## Revolutionise the future with expertise in robotics and Artificial Intelligence (AI)

QUT is delivering future-focused postgraduate courses in robotics and AI, equipping engineers with advanced knowledge and skills to lead and contribute to complex robotics and AI projects.

The robotics and AI revolution is transforming every industry sector. Now more than ever, engineers need advanced skills in the application of robotics and AI technology to drive technological advancements and competitiveness in both the Australian and global markets.

## Develop dynamic new skills, knowledge and expertise at QUT

- **Understanding of robot components**
  Including sensors, actuators, dynamics, kinematics and control of mobile and manipulator arm robots.
- **Build robotics systems**
  Capable of building robotics systems and applying knowledge in entrepreneurship for devising innovative robotic solutions.
- **Robotic system design**
  Knowledgeable in estimation, model uncertainty, decision making and practical control aspects for robotic system design.
- **Robotic vision**
  Advanced knowledge in computer vision concepts and deep learning models for robotic vision applications.
- **Machine learning**
  Advanced proficiency in probabilistic machine learning, Bayesian deep-learning, generative machine learning and deep reinforcement learning.



## Stack your qualifications

Stacking qualifications allows you to develop new skills and capabilities at a pace that suits you.

**Microcredentials**
(6 credit points)

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**Graduate Certificate in Robotics**
(48 credit points)

**Master of Robotics and Artificial Intelligence**
(144 credit points)

**Master of Advanced Robotics and Artificial Intelligence**
(192 credit points)




## Capabilities that make a difference

The QUT postgraduate courses in engineering equip students with the following capabilities:

- Conduct research to identify cutting-edge developments in robotics and machine learning.
- Apply project development and management techniques at a mastered level.
- Undertake critical analysis and evaluation of engineering activities.
- Collaborate and communicate effectively with multi-disciplinary teams to deliver outcomes.
- Enhanced knowledge, skills and confidence in professional presentations and demonstrations.
- Engage in reflective practice to enhance project deliverables.
- Consider the ethical, environmental, social and economic outcomes for engineering activities.

## Leverage your learning

Completion of our postgraduate courses will equip you with key competencies that may be used towards an application for an Engineers Australia Chartered credential.

The Engineers Australia Chartered credential is recognised nationally and internationally as a measure of excellence and presents prospective clients with immediate confidence in your abilities.



## Why choose QUT

- QUT is the #1 research institution in the field of robotics in Australia (The Australian's 2025 Research magazine).
- Engage with internationally renowned robotics and AI educators such as Distinguished Professor Peter Corke, Professor Michael Milford and Professor Jonathan Roberts.
- Commonwealth Supported Places (CSPs) are available for domestic students. This means you may not have to pay anything upfront if you're eligible for a HELP loan.
- Access real-world content that has been developed with industry, for industry.

### Did you know?

**AI has the potential to deliver 134 Sustainable Development Goal (SDG) targets, across all 17 SDGs.**

*Source: Guenat,S., et al, (2022).*

**Explore the courses on offer by visiting our website, or contact us directly to discuss your training needs.**

**bit.ly/PostGradEngineering**
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