This two-year course provides a developmental path for professional engineers to master skills in selected engineering disciplines and the interaction of those disciplines. Enhance your skills in dealing with more complex engineering problems and interactions between engineering technical domains and the broader context in which they exist.

You’ll develop post-professional knowledge and skills in a range of engineering disciplines, and build the abilities to become a leader in your chosen engineering field. The program offers both theoretical understanding and practical applications of advanced professional engineering practices, with a focus on themed technical discipline areas and sustainable, ethical and managerial abilities.

This course has provisional accreditation with Engineers Australia. Professional accreditation allows graduates to work as a professional engineer in countries that are signatories of the Washington Accord.

**Why choose this course?**

This course enhances the knowledge, practice and professional employability skills of engineers in specific discipline areas at an advanced level. Explore an integrated mix of specialist discipline complexity and evidence-based practice with future-focused professional skills development in a connected learning environment.

Three-quarters of new engineering graduates looking for full-time work find it within four months and have the highest rate of professional or managerial employment of all STEM graduates (Norton, 2016).

You can choose from two streams as part of this major:

- The mechanical engineering stream provides advanced theoretical understanding and knowledge of current professional engineering practices in mechanical engineering. It focuses on the technical discipline area, sustainable and ethical considerations, and evidence-based practices.
- The mechanical and management stream offers an engineering management qualification to practising engineers, specialising in mechanical engineering. It combines a formal qualification in management with advanced mechanical engineering skills and knowledge.

This course is suitable for practising engineers who want to change engineering

**Kinnari Shetty**

**Learn from industry experts**

‘QUT offers great teaching and connection to industry. I believe that theoretical knowledge as well as practical competence will be vital for any future employment. My advice to prospective students in Australia or overseas would be to just do it - your time at QUT will be amazing and you will leave with the skills and confidence to succeed.’
Master of Professional Engineering (Mechanical)

disciplines and attain postgraduate qualifications.

Real-world learning
Through your studies, you will learn how to:

- apply advanced and specialist knowledge, concepts and practices in engineering design, analysis management and sustainability
- critically analyse and evaluate complex engineering problems to achieve, research informed solutions
- apply systematic approaches to plan, design, execute and manage an engineering project
- communicate complex information effectively and succinctly, presenting high level reports, arguments and justifications in oral, written and visual forms to professional and non-specialist audiences
- organise and manage time, tasks and projects independently, and collaboratively demonstrating the values and principles that shape engineering decision making and professional accountability.

You will be engaged with the demands, complexities, tools and contemporary practices of authentic engineering environments. You will develop and shape contemporary authentic professional skills for immediate application in workplace contexts.

Undertake your studies through a range of learning practices, including industry-led case studies, project-based learning. Your capstone learning experience is a workplace-based or authentic two-semester project staged via a series of developmental assessments. This is supported through preparation for a simulated international engineering conference (peer-reviewed poster presentation and paper).

Entry requirements
Mechanical, and mechanical and management - 1.5-year program
You’ll need:

- a completed recognised four-year full-time equivalent bachelor degree in the mechanical engineering discipline with a minimum GPA of 4.0 (on QUT’s 7 point scale).

Mechanical - 2-year program
You’ll need a completed recognised full-time equivalent of either:

- a three-year bachelor degree in mechanical engineering or engineering technology (in mechanical engineering) with a minimum GPA of 4.0 (on QUT’s 7 point scale).
- a four-year bachelor degree in any engineering discipline with a minimum GPA of 4.0 or higher (on QUT’s 7 point scale).

Mechanical and management - 2-year program
You’ll need:

- a completed recognised three- or four-year full-time bachelor degree in mechanical engineering or engineering technology (in mechanical engineering) with a minimum GPA of 4.0 (on QUT’s 7 point scale).

Minimum English requirements
Students must meet the English proficiency requirements.

IELTS (International English Language Testing System)

| Overall  | 6.5 |
| Listening | 6.0 |
| Reading   | 6.0 |
| Writing   | 6.0 |
| Speaking  | 6.0 |

Careers and outcomes
As a graduate of the this course, you will be an Engineers Australia-accredited professional engineer with advanced, cutting-edge knowledge and skills in a chosen engineering field or engineering management role. You will:

- be able to lead and contribute to complex projects and respond rapidly and effectively to current and emerging local and global challenges
- have research capacity for evidence-based practice, to imagine and realise change using management strategies, advanced design, collaborative decision-making and innovation in ethical and sustainable ways as appropriate to your role
- be strategic in the use of digital technologies
- be an effective collaborator and communicator in disciplinary and interdisciplinary contexts with knowledge of and respect for diverse cultural perspectives.
- be able to apply integrated computer-based approaches to monitor and manage internal and external resources in an organisation and implement a range of strategies and practices to support organisational objectives such as competitive advantages, innovation, sharing lessons learned, integration and continuous improvement
- be able to become a specialist engineering manager within your chosen professional field, in particular, a leader and manager of engineering processes
- be capable of undertaking management level roles in operations management, quality control management, logistics, enterprise resource planning, supply chain management and other specialised engineering fields.

Professional recognition
Our Master of Professional Engineering is provisionally accredited by Engineers Australia. Professional accreditation allows you to work as a professional engineer in countries that are signatories of the Washington Accord.

Scholarships
You can apply for scholarships to help you with study and living costs.

- Equity scholarships scheme