Gain knowledge and skills to lead change, adopt new technologies and implement new operating practices in manufacturing businesses.

Worldwide, manufacturing companies are undergoing dramatic change. The combination of new technology, customer expectations and global competition is forcing new approaches to automation, factory design and manufacturing systems.

As the pace of change accelerates, it creates demand for trained professionals who can strategically apply new technologies and modes of manufacturing in industry.

Manufacturing companies already use computerised information systems, but there is a need to achieve true systems integration through the adoption of ‘whole enterprise’ modelling approaches. Production machines and processes are increasingly under computer/microprocessor control, and this requires more sophisticated approaches to maintenance management.

Learning and teaching
RMIT offers a variety of learning and teaching approaches including lectures, seminars, workshops, presentations, group discussions and syndicate work.
Learning and teaching activities are designed to develop the capabilities required by the contemporary manufacturing environment.
The program includes courses in additive manufacturing and utilises the facilities available at RMIT’s Advanced Manufacturing Precinct.

Industry connections
Industry plays a vital role in the development, delivery and assessment of the program through membership of the Program Advisory Committee (PAC), which comprises industry representatives, academic staff and alumni.

Career outlook
Graduates from the program will develop the potential to take a leading role in management and technology development.
Graduates will be equipped to pursue senior positions in manufacturing engineering, operations, or consultancy such as:
- a team leader implementing new technology and operational strategies
- an operations manager responsible for the competitive performance of a manufacturing unit
- a consultant providing specialist technical advice to manufacturing industry.

Professional recognition
This program does not yet have accreditation from Engineers Australia. Accreditation will be sought for this program as soon as it is feasible to do so within the accreditation timelines set by Engineers Australia.
Master of Engineering (Manufacturing)

Program structure

The Master consists of 192 credit points.

In this program, you’ll complete specific courses that focus on work-integrated learning (WIL).

You’ll be assessed on professional or vocational work in a workplace setting (real or simulated) and receive feedback from those involved in our industry. The Master’s Research Project involves WIL through an industry-relevant project.

Work experience

From semester 2, 2017, as part of the program you must complete at least 12 weeks of work experience in a professional engineering environment. Work experience completed prior to joining this program and after commencing a relevant bachelor’s degree (see Entry requirements) may count towards the work experience component.

Year 1

Complete the following core courses:
- Engineering Manufacturing
- Manufacturing Strategy and Planning
- Lean Manufacturing
- Sustainable Engineering Practice and Design
- Computer Integrated Manufacturing
- Design for Manufacture
- Advanced Manufacturing Technologies.

And complete one of the following electives:
- Intelligent Materials and Processes
- Advanced Mechatronics System Design
- Integrated Logistics Support Management
- Management of Automotive Manufacturing Engineering Processes
- Automotive Materials
- Biomedical Manufacturing
- Advanced Robotic Systems.

Year 2

Complete the following core courses:
- Risk and Project Management
- Research Methods in Engineering.

And complete two elective courses (not previously completed):
- Intelligent Materials and Processes
- Advanced Mechatronics System Design
- Integrated Logistics Support Management
- Management of Automotive Manufacturing Engineering Processes
- Automotive Materials
- Biomedical Manufacturing
- Advanced Robotic Systems

And complete:
- Master’s Research Project
- Or complete the following courses:
  - Master’s Research Project Part 1
  - Master’s Research Project Part 2.

2017 indicative fees

- Commonwealth supported places (CSPs) range from AU$6,349 to AU$10,596
- Full-fee: AU$29,760 per annum

How much you’ll pay will depend on whether you’re offered a Commonwealth supported place or a full-fee place.

Entry requirements

- An Australian bachelor’s degree (Bachelor of Technology, Bachelor of Engineering Science or Bachelor of Engineering), or equivalent, in the fields of aerospace, mechanical, manufacturing, mechatronics, sustainable systems or automotive engineering, with a Grade Point Average (GPA) of equal to or greater than 2.5 out of 4.0;

OR

- An Australian Master of Engineering or PhD, or equivalent, in the fields of aerospace, mechanical, manufacturing, mechatronics, sustainable systems or automotive engineering.

Applicants with a GPA less than 2.5 out of 4.0 may be considered on a case-by-case basis, with consideration given to at least two years’ relevant work experience in industry.

International qualifications are assessed according to the Australian Qualifications Framework (AQF).

Fees

2017 indicative fees

- Commonwealth supported places (CSPs) range from AU$6,349 to AU$10,596
- Full-fee: AU$29,760 per annum

How much you’ll pay will depend on whether you’re offered a Commonwealth supported place or a full-fee place.

Entry for this program is primarily through CSPs. Government financial assistance is available to eligible students regardless of the type of place you enrol in.

Fees shown above apply to 2017 only and are based on an annual full-time study load of 96 credit points unless otherwise noted. A proportionate fee applies for more or less than the full-time study load. Tuition fees are adjusted on an annual basis and these fees should only be used as a guide.

For more information and to learn how to calculate your exact tuition fees see:  
rmit.edu.au/programs/fees/postgraduate

This information is designed for Australian and New Zealand citizens and permanent residents of Australia.

Disclaimer: Every effort has been made to ensure the information contained in this publication is accurate and current at the date of printing.

For the most up-to-date information, please refer to the RMIT University website before lodging your application. Visit www.rmit.edu.au