

Master of Engineering Research (MENR) - MEngR

CRICOS code (International applicants): 066076A

This program is offered only to continuing students. No new admissions will be accepted. Students who are interested in this study area, please contact us .

	On-campus	External
Start:	Semester 1 (February) Semester 2 (July)	Semester 1 (February) Semester 2 (July)
Campus:	Toowoomba	-
Fees:	Domestic full fee paying place International full fee paying place Research Training Program (RTP) - Fees Offset scheme	Domestic full fee paying place International full fee paying place Research Training Program (RTP) - Fees Offset scheme
Standard duration:	3 semesters full-time, 6 semesters part-time or 6 semesters by distance education.	
Program articulation:	To: Doctor of Philosophy ; Doctor of Professional Engineering	

Contact us

Future Australian and New Zealand students	Future International students	Current students
Ask a question Freecall (within Australia): 1800 269 500 Phone (from outside Australia): +61 7 4631 5315 Email: study@usq.edu.au	Ask a question Phone: +61 7 4631 5543 Email: international@usq.edu.au	Ask a question Freecall (within Australia): 1800 007 252 Phone (from outside Australia): +61 7 4631 2285 Email usq.support@usq.edu.au

Program aims

The aim of this program is to provide Engineers with research opportunities that are relevant to the field of study. The program will provide opportunity to undertake real-world problems through a supervised research project.

Program objectives

The principal aim of the program is to produce graduates who are highly competent in research and development work in engineering. Specifically, graduates of the program will be able to demonstrate:

- a broad knowledge of selected engineering practice from agricultural, civil, computer systems, construction, electrical, electronic, engineering management, environmental, mechanical, computational, mechatronic or structural engineering
- an extensive and detailed knowledge of one significant aspect of engineering at a level that allows for the proposal and evaluation of innovative solutions to complex technical problems in that area
- an exhaustive knowledge of, and ability to access, sources of information about Australian and overseas engineering practice in the relevant area of engineering
- an ability to utilise sound research methodology and experimental design in an investigative study
- an awareness of the practical applications and the implications for the industry of the research work that has been undertaken
- a high standard of written communication on technical matters.

- production of their own original professional contributions in an appropriate engineering field.

Australian Qualifications Framework

The Australian Qualifications Framework (AQF) is a single national, comprehensive system of qualifications offered by higher education institutions (including universities), vocational education and training institutions and secondary schools. Each AQF qualification has a set of descriptors which define the type and complexity of knowledge, skills and application of knowledge and skills that a graduate who has been awarded that qualification has attained, and the typical volume of learning associated with that qualification type.

This program is at AQF Qualification Level 09. Graduates at this level will have specialised knowledge and skills for research, and/or professional practice and/or further learning.

The full set of levels criteria and qualification type descriptors can be found by visiting www.aqf.edu.au.

Admission requirements

To be eligible for admission, applicants must satisfy the following requirements:

- Completion of a four year Australian university Honours degree in the related field of study, with a GPA of 5 or above; or a GPA of 5.5 for the last 2 full years of the degree, or equivalent.
- English Language Proficiency requirements for Category 3.

All students are required to satisfy the applicable [English language requirements](#).

If students do not meet the English language requirements they may apply to study a University-approved [English language program](#). On successful completion of the English language program, students may be admitted to an award program.

Program fees

Domestic full fee paying place

Domestic full fee paying places are funded entirely through the full fees paid by the student. Full fees vary depending on the courses that are taken. Students are able to calculate the fees for a particular course via the [Course Fee Schedule](#)

Domestic full fee paying students may be eligible to defer their fees through a Government loan called [FEE-HELP](#) provided they meet the residency and citizenship requirements.

Australian citizens, Permanent Humanitarian Visa holders, Permanent Resident visa holders and New Zealand citizens who will be resident outside Australia for the duration of their program pay full tuition fees and are not eligible for [FEE-Help](#).

International full fee paying place

International students pay full fees. Full fees vary depending on the courses that are taken and whether they are studied on-campus, via distance education/online. Students are able to calculate the fees for a particular course via the [Course Fee Schedules](#).

Research Training Program (RTP) - Fees Offset scheme

All Australian citizens, Australian permanent residents and New Zealand citizens commencing a Higher Degree by Research (HDR) program will have their tuition fees paid by the Australian Commonwealth Government under the Research Training Program (RTP) Fees Offset scheme. The RTP Fees Offset scheme covers program fees for an HDR student up to a maximum period of four years for full-time study or up to eight years part-time study for a Doctoral program, and up to a maximum period of two years for full-time or four years part-time for a Masters by Research program.

As part of the enrolment process, students are required to submit proof of citizenship or permanent residency status and transcripts of all previous academic study. This documentation enables the University of Southern Queensland to determine eligibility for an RTP Fees Offset place.

If a student's RTP Fees Offset entitlement expires before completion of the program, the student will be required to pay full tuition fees.

Students eligible for an RTP Fees Offset place are those who:

- have not used RTP Fees Offset funding in the previous three years; or
- have already used RTP Fees Offset funding and have successfully completed an HDR program. Once a student completes an HDR program, full entitlements of RTP Fees Offset are restored.

The Australian Commonwealth Government's contribution to program fees must be acknowledged on all published material relating to a research project via a statement identifying the support received through the RTP Fees Offset scheme.

Program structure

The program is a 12-unit program made up of one unit of research training, one postgraduate elective (coursework or research training as approved by the Program Director) and 10 units of independent research. Research topics are selected from areas of agricultural, civil, computer systems, construction, electrical, electronic, environmental, environmental management, mechanical, biomedical, computational, mechatronic or structural engineering.

Award of the Master of Engineering (Research) requires the successful examination of the student's thesis or research outcomes, work based research project/s and professional learning.

Required time limits

The Master of Engineering Research normally involves either one and half years (three semesters) of full-time research or three years (six semesters) of part-time research during which a candidate prepares a thesis on the research undertaken and submits it for examination. Students have a maximum of five years to complete this program. International oncampus students should complete this program within the CRICOS duration which is two years.

A pro-rata adjustment of the maximum time period will apply for those students who transfer from one mode of study to another. A pro-rata reduction in the maximum time period will apply to students who are admitted to a program with advanced standing.

IT requirements

For information technology requirements please refer to the [minimum standards](#) as advised by the University. Students who have laboratory based research should confirm with their supervisor that they have access to appropriately equipped laboratories either at USQ or externally.

Other program requirements

Students must maintain good standing in this program. Please refer to the [Academic Standing, Progression and Exclusion Procedure](#).

Students must have candidature for the Master of Engineering (Research) confirmed after the end of the equivalent of six months full-time enrolment (4 units); thus requiring successful completion of:

- the courses [ENG8001 Engineering Research Methods](#) and approved elective (or another research course if required by the supervisory team); and
- a thesis proposal presented in accordance with Higher Degree by Research procedures with a minimum of a nominal grade of C from the Confirmation of Candidature panel.

Articulation

A student enrolled in the Master of Engineering Research who wishes to articulate without completing the program, may on the basis of outstanding performance, seek to transfer to the [DPHD Doctor of Philosophy](#) or [DPEN Doctor of Professional Engineering](#) program. To be considered for acceptance into the either of the above programs, students must have achieved all of the following:

- completed at least 8 units within the Master of Engineering Research
- a nominal GPA of 6 achieved from:
 - a minimum grade of A for the course ENG8001, and where applicable a minimum grade of A for another elective course if required by the supervisory team
 - a minimum grade of A for their research proposal from the Confirmation of Candidature panel
 - achieved subsequent confirmation of Master's candidature by the Office of Research Graduate Studies.

Following satisfactory completion of the above and subject to support from their supervisory team, eligible students may apply for transfer to the [DPHD](#) program or [DPEN](#). As such a transfer will involve an extension of the scope of the existing approved MENR research project, any such transfer will require the evaluation of a full confirmation proposal at doctoral program level. The material will be assessed via a Faculty confirmation panel. Students wishing to articulate as above must discuss the procedures with the Office of Research Graduate Studies.

Full-time enrolment pattern - Semester 1 entry

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

The Master of Engineering Research is a 12 unit research program, one unit of research training, one postgraduate elective (coursework or research training as approved by the Program Director) and 10 units of independent research. Students are to successfully complete the following courses:

Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Year 1								
ENG8001 Engineering Research Methods	1	1,2				1,2,3		One unit
Approved Postgraduate Elective (coursework or research training as approved by the Program Director)	1	1,2			1	1,2		One unit
ENG9021 Engineering Research Project B	1	1			1	1		Two units
ENG9041 Engineering Research Project D	1	2			1	2		Four units
Year 2								
ENG9041 Engineering Research Project D	2	1			2	1		Four units

Full-time enrolment pattern - Semester 2 entry

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Year 1								
ENG8001 Engineering Research Methods	1	1,2				1,2,3		One unit

Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
Approved Postgraduate Elective (coursework or research training as approved by the Program Director)	1	1,2			1	1,2		One unit
ENG9021 Engineering Research Project B	1	2			1	2		Two units
Year 2								
ENG9041 Engineering Research Project D	2	1			2	1		Four units
ENG9041 Engineering Research Project D	2	2			2	2		Four units

Notes:

Students must complete [ENG8001 Engineering Research Methods](#), one postgraduate elective (coursework or research training as approved by the Program Director) and a total of 10 units of Independent Research in Engineering and Surveying courses. [ENG8001 Engineering Research Methods](#) and the approved elective must be satisfactorily completed during the first term of study.

Programs may be varied to suit the needs of individual students. Enrolment in the above courses is used to monitor student progress and to levy program fees where appropriate, so it is important to consult with the Associate Dean (Graduate Research School) when finalising enrolment for this program. All of the above courses (except [ENG8001 Engineering Research Methods](#)) are un-graded courses, i.e. successful completion will be indicated by a Satisfactory Progress grade.

Part-time enrolment pattern

Students are able to enrol in any offered mode of a course (on-campus, external or online), regardless of the program mode of study they enrolled in.

Course	Year of program and semester in which course is normally studied						Enrolment requirements	Comments
	On-campus (ONC)		External (EXT)		Online (ONL)			
	Year	Sem	Year	Sem	Year	Sem		
First semester of study								
ENG8001 Engineering Research Methods		1,2				1,2		One unit
Approved Postgraduate Elective (coursework or research training as approved by the Program Director)		1,2			1	1,2		One unit
Second semester of study								
ENG9021 Engineering Research Project B		1,2				1,2		Two units
Third and fourth semester of study								
ENG9021 Engineering Research Project B [^]		1,2				1,2		Two units
Fifth and sixth semester of study								
ENG9021 Engineering Research Project B [^]		1,2				1,2		Two units

Footnotes

[^] students must reenrol into this course

Notes:

Students must complete [ENG8001 Engineering Research Methods](#), one postgraduate elective (coursework or research training as approved by the Program Director) and a total of 10 units of Independent Research in Engineering and Surveying courses. [ENG8001 Engineering Research Methods](#) and the approved elective must be satisfactorily completed during the first term of study.

Programs may be varied to suit the needs of individual students. Enrolment in the above courses is used to monitor student progress and to levy program fees where appropriate, so it is important to consult with the Associate Dean (Graduate Research School) when finalising enrolment for this program.

Consult the Handbook on the Web at <http://www.usq.edu.au/handbook/current> for any updates that may occur during the year.
Master of Engineering Research (MENR) - MEngR (2022)

All of the above courses (except [ENG8001 Engineering Research Methods](#)) are ungraded courses, i.e. successful completion will be indicated by a Satisfactory Progress grade.