As one of the most powerful diagnostic tools for organs and tissues inside the body, Magnetic Resonance Imaging demands technicians with expert scientific and technical expertise.

Magnetic Resonance (commonly known as MRI or MR) uses cutting-edge magnetic technology to create high-definition, three dimensional pictures to examine disorders such as multiple sclerosis, brain tumours and the damage caused by stroke, as well as cancer, diseases of the musculoskeletal system and metabolic disorders, such as diabetes and obesity.

Our postgraduate programs will give you an in-depth understanding of magnetic resonance technology. You will learn the physics of magnetic resonance and image formation, the components of modern MRI scanners and develop specialist practical skills essential for a dynamic career in this field.

Choose the Masters program to access new techniques which are not yet part of standard clinical practice. You will be in a position to embark on projects that make innovative use of magnetic resonance such as assessing the needs of a radiography practice and the capability of equipment from various manufacturers to meet these needs. The program consists of core courses, electives and a research component.

You will learn from some of the leading educators in the industry who base course content and practical experience from the most recent developments in research and technology.

Career opportunities
There is currently a demand for MRI physicists, MR technologists, image processors, engineers, and biomedical engineers within Australia and internationally.

Our graduates have found employment in leadership positions in hospitals, private practice and research facilities.
MARK DENHAM  Magnetic Resonance

To progress in his career as a medical radiographer, Mark Denham undertook a Master of Magnetic Resonance Technology.

He chose to do his Masters via remote electronic study through UQ’s Centre for Advanced Imaging (CAI) because of the lecturers’ broad backgrounds in radiography.

I really wanted to broaden my education and was able to learn a lot from CAI’s radiographers, clinicians, physicists, chemists and engineers.

The theoretical and practical knowledge gained has helped not just in the day-to-day running of an MRI unit, but also in selecting, purchasing and installing new systems.

Program structure

Graduate Certificate in Magnetic Resonance Technology
• 8 units (1 year part-time; only available as part-time study)

Graduate Diploma in Magnetic Resonance Technology
• 16 units (1 year full-time or part-time equivalent)

Master of Magnetic Resonance Technology
• 24 units (1.5 years full-time or part-time equivalent)

Sample courses
• Functional Magnetic Resonance Imaging
• Magnetic Resonance Instrumentation
• Fast Imaging Techniques
• Fundamental MRI of the Brain and Spine
• Cardiac MRI - Techniques and Applications
• Vascular Imaging
• Medical Image Processing and Analysis

Entry requirements

Graduate Certificate in Magnetic Resonance Technology
Program code 5036
CRCOS Code: 034045F
Bachelor degree in mathematics; physics; chemistry; biology; medical imaging; medical radiation; radiography; allied health; biomedical engineering; computer science or an approved discipline; or 5 years of work experience in the same discipline.

Graduate Diploma in Magnetic Resonance Technology
Program code 5096
CRCOS Code: 034046E
Bachelor degree in mathematics; physics; chemistry; biology; medical imaging; medical radiation; radiography; allied health; biomedical engineering; computer science or an approved discipline. Applications on the basis of post-secondary study and two years’ work experience in a related field will be individually assessed.

Master of Magnetic Resonance Technology
Program code 5193
CRCOS Code: 034047D
Bachelor degree in mathematics; physics; chemistry; biology; medical imaging; medical radiation; radiography; allied health; biomedical engineering; computer science or an approved discipline. Applications on the basis of post-secondary study and two years’ work experience in a related field will be individually assessed.

International Students: English Proficiency
IELTS overall 6.5; writing 6, reading 6, speaking 6, and listening 6. For other English Language Proficiency Tests and Scores approved for UQ, view the English proficiency policy at http://future-students.uq.edu.au/applying/english-language-proficiency-requirements

In the event of any conflict arising from information contained in this publication, the material approved by The University of Queensland Senate shall prevail.