This program covers the fundamental operational and theoretical considerations relevant to MR-PET imaging technology. It’s designed for professionals such as nuclear medicine technologists and diagnostic radiographers.

Medical imaging is developing at a rapid pace and hybrid medical imaging systems are becoming more commonplace. With the blend of high-resolution Magnetic Resonance Imaging (MRI) and the physiological data of Positron Emission Tomography (PET), MR-PET is making quite an impression in medical diagnosis. The operation of this new hybrid system requires an understanding of both the MRI and PET standalone technologies.

The Graduate Certificate in MR-PET is designed for professionals such as nuclear medicine technologists and diagnostic radiographers who require a more in-depth knowledge of the theoretical fundamentals and operational considerations of a hybrid MRI scanner and PET scanner.

An exciting feature of this new course is the one-week on-campus attendance, where students are able to operate MRI scanners, and practice scanning on human volunteers.

Career opportunities
This program is primarily designed for nuclear medicine technologists and diagnostic radiographers, wanting to upskill in this emerging specialisation. It may also be of interest to researchers using this exciting technology.

Program structure
Graduate Certificate in Magnetic Resonance and Positron Emission Tomography

- 8 units (0.5 year full-time or part-time equivalent)

Courses
- MR-PET Hardware and Software Integration
  Covers MR-PET instruments used for clinical applications
- Clinical Magnetic Resonance Imaging
  Covers patient screening, preparation and common clinical MRI protocols used when imaging various parts of the human body.
- MR Safety and Monitoring
  Covers the principal hazards of MRI environment and its effects on the human body and equipment.
- Magnetic Resonance Imaging: Fundamentals
  Explores the principles and methods that underpin MRI.
**Entry requirements**

**Graduate Certificate in Magnetic Resonance and Positron Emission Tomography**

Program code: 5654  
CRICOS Code: 092060D  
Bachelor degree in mathematics; physics; chemistry; biology; medical imaging; medical radiation; radiography; allied health; biomedical engineering; computer science or a relevant discipline (as deemed relevant by the Program Coordinator).

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 future-students.uq.edu.au/english-requirements.

**Further program information**

To find out more about this program, contact the Centre for Advanced Imaging at The University of Queensland.

P: +61 7 3365 8263  
E: education@cai.uq.edu.au  
W: cai.uq.edu.au/education

Find us on Facebook at:  
www.facebook.com/centreforadvancedimaging

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

Banner images on this page:  
Left - Anaplastic thyroid carcinoma, image courtesy of Siemens Healthcare  
Right - Rodent model, image courtesy of Centre for Advanced Imaging.