



BACHELOR OF RADIOGRAPHY AND MEDICAL IMAGING (HONOURS)

WHAT IS RADIOGRAPHY?

Radiography is a vital health profession. It assists in the diagnosis and management of human illness in the body. Many people are quite familiar with a radiograph or an x-ray. You may well have had such an examination yourself. Unlike photography, which uses light waves in its work, radiography has traditionally used that part of the electromagnetic spectrum known as x-rays to produce a radiograph.

The revolutionary application of computers in medicine and developments in the medical use of other radiations in the electromagnetic spectrum means that today radiography includes computed tomography, digital vascular imaging, ultrasound and magnetic resonance imaging.

WHAT DO RADIOGRAPHERS DO?

Radiographers are health professionals who have the knowledge and understanding required to use and manipulate radiographic equipment and complex medical imaging technology to generate a variety of images for subsequent interpretation and storage.

Generally speaking, radiographers work as part of a medical imaging team. Using digital technology, they select and implement the most appropriate examination protocol that will deliver the lowest possible dose of radiation to the patient. Because of the technical nature of the medical imaging environment, patients look to radiographers for advice and assurance throughout their examination.

In order to perform their professional role, radiographers must be competent in radiographic and medical imaging science and methods, radiologic physics, radiation protection, and radiologic biology. They must also be able to care for the patients undergoing radiographic and medical imaging examinations.

HOW DO I BECOME A RADIOGRAPHER?

Successful completion of the four-year Bachelor of Radiography and Medical Imaging course (Honours) at Monash (incorporating a paid 24-week professional clinical placement in year four) will enable graduates to apply to the Australian Health Practitioner Regulation Agency for registration as a radiographer.

MODES OF TECHNOLOGY USED BY RADIOGRAPHERS

- Computed radiography (CR)
- Digital radiography (DR)
- Computed tomography (CT)
- Magnetic resonance imaging (MRI)
- Ultrasound (US)
- Digital subtraction angiography (DSA)
- Bone densitometry
- Mammography
- Orthopantomogram
- Fluoroscopy

CAREER OPPORTUNITIES FOR RADIOGRAPHERS

- Radiographer in general radiography, trauma, paediatrics, mobile imaging, computed tomography (CT) in public and private medical imaging departments
- Specialist practitioner in computed tomography (CT), magnetic resonance imaging (MRI), digital subtraction angiography (DSA), breast imaging and dental imaging
- Sonographer (following additional graduate study)
- Application specialist in digital imaging, x-ray and medical imaging equipment, picture archiving and communication systems.

RESEARCH CAREERS

- Research in medical imaging leading to a Master of Philosophy (MPhil) or a Doctor of Philosophy (PhD).

PROFESSIONALLY-ORIENTED HIGHER DEGREES

- Master of Medical Ultrasound
- Master of Radiation Therapy
- Master of Advanced Health Care Practice

ADMISSION REQUIREMENTS

Domestic students

Prerequisites: Units 3 and 4, a study score of at least 35 in English (ESL) or 30 in any other English, and a study score of at least 25 in physics or biology and in mathematical methods (either) or specialist mathematics.

Special requirements:

- Non-Year 12 and internal course transfer students will be required to submit a supplementary form and attend a panel interview.
- Undertaking a clinical site visit (HIGHLY RECOMMENDED)
- For all important dates, please visit: med.monash.edu.au/radiography/prospective-students-undergraduate.html

International students

A limited number of places are available for overseas full-fee-paying students.

For more information on admission requirements, please visit: study.monash

CLINICAL PLACEMENTS

Clinical placements commence in semester one of year one and continue throughout all four years of the course. The clinical placements can be in hospitals and clinics in the metropolitan area or rural locations where travel may be required. Clinical placements last between two to eight weeks in year one to three, to extended periods in year four where more clinical experience in general radiography will be undertaken to meet the requirements for registration as a radiographer.

All participants in the course must complete police checks, Working With Children checks, and a first aid course before commencing their clinical placements.

Students must comply with the Faculty of Medicine, Nursing and Health Sciences' immunisation and infection risk policies.

Failure to hold satisfactory checks or meet the immunisation policy may result in students being unable to complete this course.

OUTLINE OF THE RADIOGRAPHY AND MEDICAL IMAGING UNITS

The curriculum is designed to ensure that all units are closely related and integrated with the clinical studies. In addition, the units of study in your final year are designed to broaden career prospects.

Full details of the course units are available through: study.monash

FURTHER INFORMATION

Department of Medical Imaging and Radiation Sciences

Level 1, 10 Chancellors Walk
Monash University, Clayton campus
Clayton VIC 3800 Australia

Tel: 1800 MONASH (666 274)

Email: future@monash.edu

Website: med.monash.edu/radiography

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Department of Diagnostic Imaging,
Monash Medical Centre, Clayton.

