

LECTURER – IMAGING SCIENTIST

DEPARTMENT/UNIT	Medical Imaging and Radiation Sciences
FACULTY/DIVISION	Medicine Nursing and Health Sciences
CLASSIFICATION	Level B
DESIGNATED CAMPUS OR LOCATION	Clayton campus

ORGANISATIONAL CONTEXT

At [Monash](#), work feels different. There's a sense of belonging, from contributing to something ground-breaking – a place where great things happen. You know you're part of something special and purposeful because, like Monash, your ambitions drive you to make change.

We have a clear purpose to deliver ground-breaking intensive research; a world-class education; a global ecosystem of enterprise – and we activate these to address some of the [challenges](#) of the age, Climate Change, Thriving Communities and Geopolitical Security.

We welcome and value difference and [diversity](#). When you come to work, you can be yourself, be a change-maker and develop your career in exciting ways with curious, energetic, inspiring and committed people and teams driven to make an impact – just like you.

Together with our [commitment to academic freedom](#), you will have access to quality research facilities, infrastructure, world class teaching spaces, and international collaboration opportunities.

We champion an [inclusive workplace culture](#) for our staff regardless of ethnicity or cultural background. We have also worked to improve [gender equality](#) for more than 30 years. Join the pursuit of our purpose to build a better future for ourselves and our communities – [#Changelt](#) with us.

The Faculty of **Medicine, Nursing and Health Sciences** is the largest faculty at Monash University, a global university with campuses across Victoria and international locations in Indonesia, Malaysia, China, India and Italy.

Our Faculty offers the most comprehensive suite of professional health training in Victoria, consistently ranked in the top 40 universities worldwide for clinical, pre-clinical and health sciences.

We want to improve the human condition. That is our vision - it has no expiration date. By educating the current and future healthcare workforce, and undertaking medical research, both

discovery and clinical, our students, staff and alumni all work to directly improve people's quality of life, reduce health inequality and promote greater health and social outcomes.

We're globally recognised for our quality education of over 63,000 doctors, nurses, and allied health professionals and health researchers. The future health of our communities is underpinned by the sustained excellence of our education and research capabilities.

We are ambitious and committed to maintaining our position as a leading international medical research and teaching university. We're recognised for the quality of our graduates, the scale and depth of our research, our commitment to translational research, and as a thriving biotechnology hub. To learn more about the Faculty, please visit www.monash.edu/medicine.

Our Faculty includes four Sub-Faculties: Health Sciences, Clinical and Molecular Medicine, Biomedical Medicines, and Translational Medicine and Public Health.

The **School of Primary and Allied Health Care (SPAHC)** has an organisational hub at the Peninsula campus and a presence across other Monash locations. The School aims to be Australia's leading centre of primary and allied health care education and research, building on existing strengths. The SPAHC is a leader in primary and allied care research, teaching and service. The School provides high quality programs at undergraduate and graduate entry levels, specialised professional graduate coursework programs and higher degrees by research. The School currently includes the Departments of, Paramedicine, Occupational Therapy, Physiotherapy, Social Work and Medical Imaging and Radiation Sciences.

The School's departments and centres are situated across the Caulfield, Clayton, Notting Hill and Peninsula Campuses. The Rehabilitation, Ageing and Independent Living (RAIL) Research Centre is an important Centre within the School and the School is a key partner in The National Centre for Healthy Ageing, a joint venture between Peninsula Health and Monash University. Further details may be found at: www.monash.edu/medicine/spahc

The **Department of Medical Imaging and Radiation Sciences** aims to prepare students for effective and ethical professional practice in a diverse range of modern medical imaging modalities and to pursue careers in radiography, medical ultrasound, radiation therapy and research. The Department actively encourages students to engage in a process of life-long learning and contribute to the development of radiography, radiation therapy, and sonography as research-based professions; and foster an interest in clinical and scientific research and to contribute to advances in radiography, radiation therapy and medical ultrasound.

Further details may be found at: www.med.monash.edu.au/radiography/about.html

POSITION PURPOSE

A Level B academic is expected to make contributions to the teaching of the University and to carry out activities to maintain and develop her/his scholarly, research and/or professional activities relevant to the profession or discipline.

The Lecturer will contribute to teaching and research in areas of Imaging Physics and/or Artificial Intelligence related to medical imaging and will be expected to work with academics and researchers of DMIRS to extend the research capacity of the department.

The Lecturer will be responsible for teaching various areas of physics of medical imaging (ideally with a focus in Ultrasound and/or CT) and/or artificial intelligence or machine learning. The Lecturer will also conduct innovative and ground-breaking research in medical imaging and/or radiation science in concert with the development and application of advanced biomedical imaging sciences. This position will also contribute to HDR and honours supervision and teaching in the postgraduate and undergraduate programs.

Key components of this role will require significant expertise in one or more of the following fields: physics, medical physics, biomedical imaging, biomedical engineering, artificial intelligence, big data, radiation sciences.

Reporting Line: The position reports to the Head of Department, Medical Imaging and Radiation Sciences

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES

Specific duties required of a Level B academic may include:

1. Implement innovative teaching approaches for face-to-face, online and blending learning courses incorporating industry best practice and the latest research findings
2. Design and develop engaging course curricula to promote student learning
3. The conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and/or studio sessions
4. Preparation and assessment of student assignments and examinations
5. The preparation and delivery of lectures and seminars
6. Acting as subject coordinators
7. Supervision of the program of study of honours students or of postgraduate students engaged in course work
8. Supervision of major honours or postgraduate research projects
9. Consultation with students
10. Responsible for broad administrative functions
11. Attendance at departmental, school and/or faculty meetings and a major role in planning or committee work
12. Contribution to the profession and/or discipline both nationally and internationally
13. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee must:
 - A doctoral qualification in the relevant discipline area

Knowledge and Skills

2. Demonstrated record of teaching medical imaging, imaging physics or artificial intelligence/machine learning in a tertiary environment.
3. Possess a high level of interpersonal skills and demonstrated ability to work independently and as part of a team across both the education and service sectors
4. Demonstrated manuscript preparation skills; including developing a solid track record of refereed research publications
5. Ability to think creatively, work positively and cooperatively with students, internal and external stakeholders to develop and maintain strong professional links within relevant clinical settings, both hospital-based and in the professional community.
6. Ability to bring expertise to support the teaching and assessment activities of the department

7. Demonstrated ability to motivate, actively engage and educate a given audience

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- A current satisfactory Working With Children Check is required

GOVERNANCE

Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.