

# SENIOR LECTURER - IMAGING SCIENTIST

DEPARTMENT/UNIT	Medical Imaging and Radiation Sciences, School of Primary and Allied Health Care
FACULTY/DIVISION	Medicine Nursing and Health Sciences
CLASSIFICATION	Level C
DESIGNATED CAMPUS OR LOCATION	Clayton campus

## ORGANISATIONAL CONTEXT

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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](http://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](http://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](http://www.med.monash.edu.au/radiography/about.html)

## **POSITION PURPOSE**

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A Level C academic is expected to make significant contributions to the teaching effort of a department, school, faculty or other organisational unit or an interdisciplinary area. An academic at this level is also expected to play a major role in scholarship, research and/or professional activities

The Senior 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 researches of DMIRS to extend the research capacity of the department.

The Senior 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 Senior 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

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Specific duties required of a Level C academic may include:

1. Conduct of original research that will lead to publications in high-quality peer-reviewed refereed journals or with high level academic or commercial publishers and attract external and government funding
2. Leadership role in securing research income and where appropriate, leadership of a research team
3. Supervision of PhD, honours and postgraduate students; provide leadership to support their continued career development
4. Leadership role in educational innovation, curriculum design and review
5. Implementing innovative teaching approaches for face-to-face, online and blended learning courses incorporating industry best practice and the latest research findings
6. Coordinating a major or field of study or award program
7. Conduct of tutorials, practical classes, demonstrations, workshops, student field excursions, clinical sessions and online delivery
8. Preparation and assessment of student assignments and examinations
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

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### Education/Qualifications

1. The appointee must:
  - have a doctoral degree in the relevant field with significant teaching experience at university level

### Knowledge and Skills

2. Demonstrated strong record of teaching medical imaging, imaging physics or artificial intelligence/machine learning at tertiary level in either undergraduate or postgraduate

programs or both

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 publication record in high-quality refereed journals, conferences equivalent textbooks or teaching resources in medical imaging or artificial intelligence/machine learning
5. Demonstrated ability in undertaking outstanding research and leading a research team and project
6. Proven record of obtaining significant external grants for research
7. Demonstrated record of successfully supervising postgraduate research students
8. 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
9. Demonstrated strong record of teaching experience in a tertiary environment including course coordination and innovative teaching, in particular in MRI and at least one of the following: radiography and/or image interpretation
10. Ability to bring their clinical expertise to support the teaching and assessment activities of the Department
11. Ability to bring expertise from their profession to inform curriculum teaching and subject material development
12. A demonstrated capacity to work in a collegiate manner with other staff in the workplace with a 'can-do' attitude
13. Ability to engage actively with external stakeholders to advance MRI education nationally and internationally

## **OTHER JOB RELATED INFORMATION**

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- 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**

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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.