POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: Centre for Advanced Imaging
Position Number: TBA
Type of Employment: Full Time, Fixed Term 2 Years
Classification: Academic Level A

THE UNIVERSITY OF QUEENSLAND

The University of Queensland (UQ) contributes positively to society by engaging in the creation, preservation, transfer and application of knowledge. UQ helps shape the future by bringing together and developing leaders in their fields to inspire the next generation and to advance ideas that benefit the world. UQ strives for the personal and professional success of its students, staff and alumni. For more than a century, we have educated and worked with outstanding people to deliver knowledge leadership for a better world.

UQ ranks in the world’s top universities, as measured by several key independent ranking, including the CWTS Leiden Ranking (32), the Performance Ranking of Scientific Papers for World Universities (40), the US News Best Global Universities Rankings (42), QS World University Rankings (47), Academic Ranking of World Universities (54), and the Times Higher Education World University Rankings (66). Excluding the award component, UQ is now ranked 45th in the world in the ARWU, and is one of the only two Australian universities to be included in the global top 50.

UQ has an outstanding reputation for the quality of its teachers, its educational programs and employment outcomes for its students. Our students remain at the heart of what we do. The UQ experience – the UQ Advantage – is distinguished by a research enriched curriculum, international collaborations, industry engagement and opportunities that nurture and develop future leaders. UQ has a strong focus on teaching excellence, winning more national teaching excellence awards than any other in the country and attracting the majority of Queensland’s highest academic achievers, as well as top interstate and overseas students.

UQ is one of Australia’s Group of Eight, a charter member of edX and a founding member of Universitas 21, an international consortium of leading research-intensive universities.

Our 53,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 17,000 international students from 135 countries, adding to its proud 260,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a $2.15 billion annual operating budget. Its major campuses are at St Lucia, Gatton and Herston, in addition to teaching and research sites around Queensland and Brisbane city. The University has six Faculties and four University-level Institutes. The Institutes, funded by government and industry grants, philanthropy and commercialisation activities, have built scale and focus in research areas in neuroscience, biomolecular and
biomedical sciences, sustainable minerals, bioengineering and nanotechnology, as well as social science research.

UQ has an outstanding track-record in commercialisation of our innovation with major technologies employed across the globe and integral to gross product sales of $11billion+.

UQ has a rapidly growing record of attracting philanthropic support for its activities and this will be a strategic focus going forward.

Organisational Environment

The Centre for Advanced Imaging (CAI) is a strategic initiative of The University of Queensland, reflecting the growth in biotechnology, biomedical and materials research requiring advanced imaging capabilities. As a leading imaging research facility in Australia, and one of a handful in the world, CAI brings together the skills of a critical mass of researchers and 'state-of-the-art', world- or Australian-first research imaging instruments. NMR, EPR, MRI, PET, CT and optical imaging are now key platform research technologies for studying the structure and function of biomolecules and living organisms, from proteins to the human

CAI conducts research across the spectrum from development of new imaging technologies, analysis of molecular structure, synthesis of MRI and PET biomarkers targeting fundamental biological processes to studies of major diseases, such as neurodegenerative disorders, cancer and cardiovascular disease, affecting a range of organ systems, through to imaging economically significant agricultural animals and plant material, minerals and construction materials.

In collaboration with the CAI, scientists at The Queensland Brain Institute (QBI) work to understand brain function and regulation by studying cellular and mechanistic changes, as well as disorders and diseases from early development through to later life. In addition to disease and injury, many researchers work to understand the higher brain functions that control the likes of human behaviours, consciousness and self-awareness. Through established collaborations with other basic researcher scientists, clinicians and commercial partners, the knowledge that is generated through QBI's basic scientific research is able to be applied to the development of new therapeutic approaches to combat diseases in which brain function has failed or is compromised.

Further details on the Centre for Advanced imaging and the research interests of its staff can be found on CAI's website http://www.cai.uq.edu.au/

Information for Prospective Staff

Information about life at UQ including staff benefits, relocation and UQ campuses is available online.

The University of Queensland Enterprise Agreement outlines the position classification standards for Levels A to E.

DUTY STATEMENT

Primary Purpose of Position

To engage, as a Postdoctoral Research Fellow in imaging research projects as agreed with the 7T Facility Fellow and the Director, Centre for Advanced Imaging.
Duties

Duties and responsibilities include, but are not limited to:

Teaching and Learning
As a 'Research focussed' position there is no formal requirement for undergraduate teaching. However it is encouraged that you actively seek teaching opportunities
- Actively teach and supervise at honours and postgraduate level and participate in events to attract postgraduate students.
- Supervise students, including coursework and higher degree research students.
- Provide effective academic advice to students.

Research
- Develop an independent and/or team research program including external funding, and achieve national recognition in the research area.
- Conduct research and publish scholarly papers in high quality outlets.
- Develop a program of applied and contract research in the field.
- Work with colleagues and postgraduates in the development of joint research projects.
- Prepare research publications and progress reports and participate in regular meetings to discuss project objectives, methodology and outcomes.
- Actively seek research funding from internal and external sources including the Commonwealth research granting agencies, the state government and industry.

Service and Engagement
- Foster relations with industry, government departments, professional bodies and the wider community
- Perform a range of administrative functions.
- Contribute to the processes that enable the academic team to manage the work, including participation in decision-making and serving on relevant committees.
- Any other duties as reasonably directed by your supervisor.

Other
- Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including but not exclusive to:
  - the University's Code of Conduct
  - requirements of the Queensland occupational health and safety (OH&S) legislation and related OH&S responsibilities and procedures developed by the University or Institute/School
  - the adoption of sustainable practices in all work activities and compliance with associated legislation and related University sustainability responsibilities and procedures
  - requirements of the Education Services for Overseas Students Act 2000, the National Code 2007 and associated legislation, and related responsibilities and procedures developed by the University

Organisational Relationships

The position reports to the 7T Facility Fellow, The Centre for Advanced Imaging.
SELECTION CRITERIA

- PhD in the area of physics, mathematics, biomedical engineering, electrical engineering or an equivalent combination of relevant experiences, training or education.
- Demonstrated expert knowledge relevant to advanced imaging, in particular functional MRI at Ultra-high field
- Demonstrated teaching skills at undergraduate and postgraduate levels
- An ability to establish effective relationships and to represent and promote advanced imaging techniques at a university and wider community level, including industry, government and professional bodies.
- Evidence of a contribution to research, including successful external grant applications.
- Evidence of solving research problems, particularly in the area of MRI
- Ability to work collaboratively with colleagues, and derive direction from multiple supervisors.
- Personal drive to succeed and a positive, can-do attitude towards busy workloads

Desirable

- Developed industry liaisons and professional contacts.
- Confidence and ability to teach at undergraduate and postgraduate levels
- Knowledge of Magnetic Resonance Imaging, ideally at 7-Tesla
- Experience in liaising and collaborating with external agencies to develop co-operative research initiatives.
- Experience in medical images and their wider application to a broad range of research topics

Seminar

Applicants invited for interview may be expected to present a seminar in conjunction with the selection interview process.

Qualification Verification

An appointment to this position is subject to the verification of the highest academic qualification from the conferring institution.

The University of Queensland values diversity and inclusion and actively encourages applications from those who bring diversity to the University. Please refer to the University’s Diversity and Inclusion webpage for further information and points of contact if you require additional support.

This role is a full-time position; however flexible working arrangements may be negotiated.

Accessibility requirements and/or adjustments can be directed to recruitment@uq.edu.au.