POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: Queensland Brain Institute
Position Number: 3035702
Type of Employment: Full Time, Fixed term for up to 3 years
Classification: Academic Research Level A or B. Level of appointment will be commensurate with qualifications, experience and academic achievements.

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 Performance Ranking of Scientific Papers for World Universities (43), the US News Best Global Universities Rankings (52), QS World University Rankings (47), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (65). UQ again topped the nation in the prestigious Nature Index and our Life Sciences subject field ranking in the Academic Ranking of World Universities was the highest in Australia at 20.

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 50,000-plus strong student community includes more than 13,000 postgraduate scholars and more than 12,000 international students from 144 countries, adding to its proud 240,000-plus alumni. The University has about 7,000 academic and professional staff and a $1.8 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+ (see http://uniquest.com.au/our-track-record).

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 Queensland Brain Institute works to understand the development, organisation and function of the brain. We aim to understand the neural circuits in the brain, how their function results in behavioural outcomes, and how dysfunction of these circuits leads to disorders such as dementia, Parkinson’s disease and schizophrenia. We aim to (1) Develop novel therapeutic approaches to treat disorders of neural function and (2) Use our understanding of brain function to improve learning in classrooms and in the workplace.

Established in 2003, QBI (www.qbi.uq.edu.au) is housed on the St Lucia campus of UQ. It is home to more than 450 staff and students, including 41 group leaders.

Over the past decade QBI has become known as one of the world’s leading neuroscience research institutes. It played a key role in contributing to UQ attaining the highest possible score of 5 for neuroscience, in both the 2010, 2012, and 2015 Excellence in Research for Australia (ERA) reviews, one of only two universities in Australia to achieve this.

Information for Prospective Staff

Information about life at UQ including staff benefits, relocation and UQ campuses is available at - http://www.uq.edu.au/current-staff/working-at-uq

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

DUTY STATEMENT

Primary Purpose of Position

The primary purpose of the position is to develop image processing pipelines to analyse magnetic resonance imaging data. The work will focus on data analysis of functional MRI data, Diffusion Tensor Imaging data, Cerebral Blood Flow data, and resting state functional connectivity MRI data. The candidate will also have experience in preclinical imaging. This work will provide a translational platform from bench to bedside where work will be investigated at both the clinical and preclinical sides. The successful applicant will have prior experience with Magnetic Resonance Imaging (MRI) experiments and have experience in dealing with MRI data.
Duties

Duties and responsibilities include, but are not limited to:

- Conducting the experiments and data analysis;
- Publish high quality papers and contribute to the disciplined academic environment of the laboratory and the institute;
- Acquire and maintain familiarity with relevant scientific literature and contribute to the academic environment of the laboratory and institute;
- Present results of research at meetings at all levels – laboratory, institutional, national and international as appropriate;
- Contribute to safe laboratory working environment;
- Contribute to supervision of junior members and students within the laboratory and to the smooth running of the laboratory.
- Training of students and other team members

Other

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

- 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
- the adoption 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 Dr Fatima Nasrallah, Queensland Brain Institute.

Selection Criteria

Essential

- PhD in the discipline of neuroscience, biomedical engineering, physics;
- Experience with Magnetic Resonance Imaging such as functional MRI, structural Diffusion Imaging which should be reflected as data based publications;
- Demonstrate excellent skills in programming and image processing
• An ability to establish effective relationships and collaborations and to represent and promote academic discipline;
• Demonstrated ability to bring research to publication, excellent organisational and time management skills as well as a high level of written, oral and interpersonal skills;
• Excellent communication skills;
• Ability to work independently and collaboratively;
• Excellent attention to detail;
• Awareness of laboratory safety, occupational health and safety protocols;
• Evidence of a contribution to research, including contributing to successful external grant applications.
• Proper record keeping

Desirable

• Experience working in research related to traumatic brain injury;
• Experience working in research related to dementia and Alzheimer’s disease.

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 (http://www.uq.edu.au/equity) for further information and points of contact if you require additional support.

Accessibility requirements and/or adjustments can be directed to the contact person listed in the job advertisement.