POSITION DESCRIPTION

Position Title: Research Assistant
Organisation Unit: Centre for Advanced Imaging
Position Number: 3037628
Type of Employment: 0.6 FTE, Fixed Term
Classification: Hew Level 5

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+

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

**The Centre for Advanced Imaging**

The Centre for Advanced Imaging (CAI), a strategic initiative of The University of
Queensland, is a leading imaging research facility in Australia, and one of a handful in the
world. It brings together the skills of a critical mass of researchers and state-of-the-art, world-
or Australian-first imaging research instruments including NMR, EPR, MRI, PET, CT, optical
imaging and an on-site cyclotron and radiochemistry facilities. CAI hosts the largest Node of
the National Imaging Facility (NIF) (http://anif.org.au/).

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 affecting a range of organ systems,
through to imaging economically significant agricultural animals and plant material, minerals
and construction materials.

A multidisciplinary, cohesive student community have come together from all over the globe
to CAI to undertake research training. The Centre has an active student association (STAC) that provides many opportunities for networking and professional development, a
supportive mentoring structure that will enhance personal and professional growth, an
annual symposium and a well-attended weekly seminar program which attracts high profile
National and International speakers.

Further details on the Centre for Advanced imaging and ongoing research can be found on

CAI is committed to supporting the career growth of female researchers and have a number
of initiatives to support females in developing and achieving a fulfilling research career at the
institute. For more information, please visit our CAI Women in Imaging website at

**Information for Prospective Staff**

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

**DUTY STATEMENT**

**Primary Purpose of Position**

The primary purpose of this position is to be actively involved in implementation of the
human exercise and cognitive function randomised-controlled clinical trial by supporting the
project as a Research Assistant.

**Duties**

Duties and responsibilities include, but are not limited to:
- Schedule appointments for MRI sessions
- Screening potential participants for MRI eligibility
• Conduct the MRI scanning: explaining the task, preparing the tests, and running the MRI session in collaboration with other staffs/student
• Perform statistical analyses on the behavioural and imaging data
• Perform the analyses on the resting state and fMRI data
• Support the operation of the study with flexible availability, including early morning starts for testing

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 Dr Maryam Ziaei, postdoctoral research fellow at the Centre for Advanced Imaging and Queensland Brain Institute.

SELECTION CRITERIA

Essential
• Qualifications and training equivalent to an undergraduate degree in psychology or neuroscience;
• High level of skills and knowledge in brain imaging analyses
• High level of skills in Psychtoolbox and MATLAB
• Proficiency in statistical analyses using SPSS or R;
• Demonstrated experience in testing human, specifically elderly subjects, in MRI;
• Ability to adhere to data collection and quality control protocol, and experience in the use of sophisticated methods for analyses;
• Ability to communicate effectively and work collaboratively with colleagues with excellent interpersonal skills;
• Ability to prioritise own workload, work independently and meet deadlines.

Desirable
• Experience in functional analyses software, such as SPM or FSL;
• Experience in structural analyses software, such as freesurfer.
The University of Queensland values diversity and inclusion. Applications are particularly encouraged from Aboriginal and Torres Strait Islander peoples. For further information please contact our Australian Indigenous Employment Coordinator at: atsi_recruitment@uq.edu.au Applications are also encouraged from women. This role is a full-time position; however flexible working arrangements may be negotiated.