POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: Queensland Brain Institute
Position Number: 3017648
Type of Employment: Full Time, Fixed Term for 2 years initially
Classification: Research 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 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 $11 billion+ (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](http://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 the 2010, 2012, and 2015 Excellence in Research for Australia (ERA) assessments, one of only two universities in Australia to achieve this.

**Clem Jones Centre for Ageing and Dementia Research**

This position works within the Clem Jones Centre for Ageing Dementia Research (CJCADR) which was established within the Queensland Brain Institute (QBI) in 2012, focusing on understanding pathogenic mechanisms at a molecular and cellular level and using this insight to develop therapeutic strategies for the prevention and treatment of ageing dementia as well as better diagnostic tools.

**Working with Animals**

Working with laboratory animals is an inherent requirement of some positions. Appointment to these positions may therefore be subject to, and conditional upon, satisfactory medical clearance(s) (including disclosure of relevant medical history) to undertake such work without unreasonable risk to your health and to fully comply with necessary ongoing health monitoring procedures and control measures associated with the position.

**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](http://www.uq.edu.au/current-staff/working-at-uq)

The University of Queensland [Enterprise Agreement](http://www.uq.edu.au/current-staff/working-at-uq) outlines the position classification standards for Levels A to E.
DUTY STATEMENT

Primary Purpose of Position

The candidate will be involved in projects towards the understanding of the physiological and pathological role of proteins implicated in neurogenerative diseases, in particular Alzheimer's disease, using molecular, biochemical and microscopy techniques in in vitro and in vivo models. He/she will be responsible for experimental design, data analyses, and manuscript preparation, and will also be expected to apply for both independent and collaborative funding to support his/her research focus.

Duties

Duties and responsibilities include, but are not limited to:

- Conduct research to dissect pathomechanisms in Alzheimer's disease and understand the physiological and pathological role of proteins implicated in Alzheimer's disease using cellular and rodent models.
- Publish high quality papers and contribute to the disciplined academic environment of the laboratory and the institute.
- Apply for both independent and collaborative research funding.
- 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.

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 Professor Jürgen Götz (CJCADR, QBI).
SELECTION CRITERIA

**Essential**
- PhD in the area of neuroscience, cell biology or relevant discipline, with a proven track record;
- Extensive experience in molecular and biochemical techniques;
- Ability to work independently with limited supervision and manage time effectively under conflicting demands;
- Ability to work responsibly, accurately and independently;
- Ability to interpret experimental data to plan subsequent experiments and troubleshoot techniques;
- Ability to bring the work to completion so as to obtain publishable results.

**Desirable**
- Experience in establishing primary neuronal cultures;
- Experience in microscopy and image analysis (potentially using super-resolution microscopy);

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.