

POSITION DESCRIPTION

Position Title:	Postdoctoral Research Fellow
Organisation Unit:	School of Chemistry and Molecular Biosciences
Position Number:	3073375
Type of Employment:	Fixed Term
Classification:	Academic Research 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 (43), the US News Best Global Universities Rankings (42), QS World University Rankings (48), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (69). 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 52,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 15,400 international students from 135 countries, adding to its proud 250,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a \$1.75 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://uniquet.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 Faculty of Science is recognised as a powerhouse for some of the world's leading scientists, teachers, science programs and commercial outcomes. The Faculty is one of the largest Science groupings in Australia, with approximately 1100 (equivalent full-time) staff, and about 7500 (equivalent full-time) students.

Throughout its Schools and Centres, the Faculty unites the disciplines of agriculture and animals, biomedical and biological sciences, chemistry, earth sciences, food sciences, geography, marine science, maths and physics, the environment and veterinary science.

With strong links between the enabling and applied sciences, UQ researchers and graduates are working on a wide range of groundbreaking projects from the molecular characterisation of drug resistant bacteria that affect piglets through to finding better treatments for illness and rehabilitation of the environment.

Information about the Faculty may be accessed on the Faculty's web site: <http://www.science.uq.edu.au/>

School of Chemistry and Molecular Biosciences

The School of Chemistry and Molecular Biosciences (SCMB) combines the disciplines of Chemistry, Biochemistry & Molecular Biology, Microbiology and Parasitology into a single academic unit. The School has modern research laboratories with state-of-the-art equipment and research infrastructure. The School includes over 50 academic staff, who are widely published internationally and have extensive research backgrounds. Information about the School and research interests of academic staff may be found on the web site <http://www.scmb.uq.edu.au>.

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

A Postdoctoral Research Fellow will focus their efforts on developing their expertise and emerging research profile in their discipline. At this level the incumbent will be supported and guided by more senior academic staff with the expectation of an increasing degree of autonomy over time.

Duties

Duties and responsibilities include, but are not limited to:

For a Research Focused Level A Academic

Research

- Undertake research in chemistry with an ambition for high achievement.
- Aptitude for research as demonstrated by high quality research outputs (including publications and conference presentations) and/or recognition with awards.
- Demonstrated experience in preparing reports of experimental findings and drafting publications for publication.
- Ability to work as a member of a team that includes undergraduates, and postgraduates in the development of joint research projects.
- Ability to quickly acquire new laboratory techniques and to perform them routinely at a high level of accuracy and efficiency
- Ability to accept responsibility for managing and maintaining a chemistry research lab
- Sound knowledge of and adherence to Wellness, Health and Safety guidelines
- The ability to plan, execute and interpret research in a semi-independent manner
- High level of inter-personal and communication skills
- Determination and ability to work to deadlines

Teaching and Learning

- Contribute to supervision of Honours students and Higher Degree by Research students (as appropriate).

Service and Engagement

- Begin to develop internal and external relationships with collaborators and the wider community.
- Perform a range of administrative functions.
- 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 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 Paul Bernhardt, School of Chemistry and Molecular Biosciences.

SELECTION CRITERIA

- PhD (or near completion) in chemistry
- Demonstrable experience with electrochemical methods including simulation techniques
- Experience in the application of bulk scale electro-synthetic methods
- Ability to carry out standard synthetic organic and coordination chemistry procedures
- Experience in purification (e.g. column chromatography) and characterisation techniques (e.g. NMR, UV-Vis, MS, etc.)
- Skilled in the manipulation of air and moisture sensitive compounds
- Sound knowledge of HSW guidelines, laboratory/field work safety and collection permits.
- Ability to work as a member of a team.
- The ability to plan, execute and interpret research in a semi-independent manner.
- High level of inter-personal and communication skills.
- Determination and ability to work to deadlines.
- Demonstrated enthusiasm for research and ambitions for high achievements

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 HR Contact Officer.