POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow
Organisation Unit: Australian Institute for Bioengineering and Nanotechnology
Position Number: NEW
Type of Employment: Full-time, fixed term
Classification: Research Focussed 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 (45), QS World University Rankings (48), Academic Ranking of World Universities (55), and the Times Higher Education World University Rankings (69). UQ again topped the nation in the prestigious Nature Index, and our Academic Ranking of World Universities result in the field of Life and Agricultural Sciences is 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.

**Australian Institute for Bioengineering and Nanotechnology**

The University of Queensland’s Australian Institute for Bioengineering and Nanotechnology (AIBN) is a dynamic multi-disciplinary research institute dedicated to developing technology to alleviate societal problems in the areas of health, energy, manufacturing and environmental sustainability. AIBN brings together the skills of more than 450 world-class researchers complimented by an extensive suite of integrated facilities, working at the intersection of biology, chemistry, engineering and computer modelling. With a reputation for delivering translational science, AIBN conducts research at the forefront of emerging technologies, and has developed strong collaborations with leading members of industry, academia and government. AIBN goes beyond basic research to develop the growth of innovative industries for the benefit of the Queensland and Australian economies.

AIBN is committed to supporting the career growth of women researchers and have a number of initiatives to support women in developing and achieving a fulfilling research career at the institute. For more information, please visit our AIBN Women in Science web site at http://www.aibn.uq.edu.au/women.

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**National Biologics Facility**

This position will be based at the National Biologics Facility (NBF), within AIBN. The NBF provides high-quality, custom discovery and manufacturing solutions for the development and production of recombinant biopharmaceuticals in mammalian cells. The facility works with the biotechnology community spanning academic and industrial researchers to help drive their research from early discovery through to pre-clinical development, and receives funding from the Commonwealth Government’s National Collaborative Research Infrastructure Strategy, via Therapeutic Innovation Australia.

**Information for Prospective Staff**

Our people are our greatest asset. We offer collaborative, inclusive work and study places, which are enriched by the significant diversity of our staff, students and community. We genuinely believe that creativity and innovation flourishes in an environment where people feel supported, valued and empowered. Mutual respect, inclusivity and accountability are at the cornerstone of UQ’s culture.

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 further developing the cell line development capabilities of the Queensland node of the National Biologics Facility by researching and implementing new technologies in cell line engineering and clonal isolation for the production of biologics. This will also involve providing technical support and protein expression solutions to the Queensland node of the National Biologics Facility in the areas of mammalian cell line development and upstream bioprocessing.

Duties

Duties and responsibilities include, but are not limited to:

Research

- Develop a coherent research program focussing on advanced mammalian expression systems for the production of biologics. In particular with the:
  - Optimisation of cell line development and upstream bioprocesses
  - Development of clonal mammalian cell lines, utilising sophisticated equipment for ensuring monoclonality and high expression yields, including the Beacon Optofluidics Platform
- Participate in applications for external research funding
- Prepare research publications and progress reports and participate in regular meetings to discuss project objectives, methodology and outcomes
- Assist in the maintenance and daily operation of the laboratory, clean room facilities and equipment

Teaching and Learning

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

Service and Engagement

- Contribute to internal and external client projects, for both academic and industry clients, in the areas of cell line development and mammalian recombinant protein expression
- Present and communicate results to clients through detailed reporting to meet milestones
- Contribute to activities that benefit the organisational unit, such as serving on internal 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 National Biologics Facility Director, Professor Trent Munro

SELECTION CRITERIA

Essential

- PhD (or progress towards a PhD) in a relevant area (Bioengineering, Molecular Biology, Chemical Engineering), with experience in stable mammalian recombinant protein expression
- Knowledge and experience in:
  - molecular biology, mammalian cell culture and heterologous gene expression
  - clonal cell line isolation
  - the biologics manufacturing industry
- Evidence of a contribution to research, including publications in refereed journals and conference abstracts
- Experience in following standard operating procedures, record keeping and preparing of reports to showcase research results
- Well-developed communication, interpersonal and consultative skills and the ability to work collaboratively in a team environment.
- High level organizational skills, with demonstrated capacity to establish and achieve goals.
- Ability to build smooth liaisons and professional contact with academic and industrial collaborators.

Desirable

- Experience in high-throughput clonal isolation technologies
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.

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