POSITION DESCRIPTION

Position Title: Postdoctoral Research Fellow  
Organisation Unit: Genomics Initiative  
Position Number: 3038272  
Type of Employment: Full Time, 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 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 Director, UQ Genomics Initiative reports to the Deputy Vice-Chancellor (Research). The UQ Genomics Initiative offers a clear point of entry to UQ's collective genomic capabilities, including its interactions with government and industry. The Director ensures that the UQ Genomics Initiative facilitates interdisciplinary interactions in fundamental and applied research, education, training and consulting across all faculties and institutes with a firm establishment of UQ as an international leader in genomics research. Information about the UQ Genomics Initiative is available at [https://genomics.uq.edu.au/](https://genomics.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](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 this position is to conduct research as part of a project investigating the functional biology of internal annual time keeping mechanisms ('circannual clock') in vertebrates and the evolution of these mechanism in response to natural and artificial selection. You will work closely with an interdisciplinary team consisting of several international collaborators, and you will be responsible for performing a variety of analyses on transcriptomic and genomic data generated on Pacific Biosciences sequencing platforms, constructing sequencing libraries, and generating data using a PacBio Sequel system.

**Duties**

Duties and responsibilities include, but are not limited to:

- PacBio sequencing data generation and bioinformatics analyses;
- Conducting experiments to optimise PacBio Iso-Seq sample preparation and normalisation protocols;
- Bioinformatics and Comparative analysis of genomic and transcriptional data from short and long sequencing read data;
- Work closely with international collaborators and contribute to the smooth running and successful completion of the project;
- Publish high quality papers and contribute to the disciplined academic environment of the laboratory and the Genomics Initiative;
- Acquire and maintain familiarity with relevant scientific literature and contribute to the academic environment of the laboratory and the Genomics Initiative;
• Present results of research at meetings at all levels – laboratory, institutional, national and international as appropriate.

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 Director, UQ Genomics Initiative.
SELECTION CRITERIA

Essential

- PhD in the discipline of genomics, genetics, bioinformatics or related disciplines;
- Experience in third-generation sequencing data analyses;
- Expertise in molecular biology lab. skills and experience in sequencing sample and library preparation;
- Excellent knowledge in evolutionary biology and comparative genomics;
- Excellent communication skills;
- Ability to work independently and collaboratively;
- 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;
- Awareness of laboratory safety, occupational health and safety protocols;
- Excellent attention to detail.

Desirable

- Experience working in mammalian and avian species.

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.