

POSITION DESCRIPTION

Position Title:	Senior Statistician
Organisation Unit:	Centre for Health Services Research
Position Number:	3047887
Type of Employment:	Full-time, Fixed Term
Classification:	Hew Level 8

THE UNIVERSITY OF QUEENSLAND

The University of Queensland (UQ) is one of Australia's leading research and teaching institutions. For more than a century, we have been bringing together outstanding educators, researchers and innovators – across a range of disciplines – to inspire the next generation and to advance ideas that can benefit the world.

Today, UQ is [ranked among the world's leading universities](#) and we are consistently recognised as one of the top 5 universities in Australia.

Each year, we teach around 55,000 students across 6 faculties, located at our 3 beautiful campuses at St Lucia, Herston and Gatton – as well as online. We aspire to broaden the knowledge and skills of these students, so that they're equipped to achieve their professional goals and make a positive contribution to our society, and the world.

The University is also home to 8 research institutes and more than 100 separate research centres with an interdisciplinary community of more than 1500 researchers, who have come to UQ from all over the globe. This outstanding community of researchers is continuing to build upon UQ's long and proud tradition of discovery science, invention, innovation, translation and commercialisation.

At UQ, we recognise that our people are our greatest asset. As such, we seek to recruit innovative people who are passionate about helping us to advance our mission and broaden our impact.

Our culture is built on the things that we value most highly – the pursuit of excellence; creative and independent thinking; honesty and accountability; mutual respect and diversity; and providing support for our people. Through the promotion of these values, we're creating a culture that encourages our people to bring their very best, authentic self when they come to work at UQ.

Faculty of Medicine

The University of Queensland's Faculty of Medicine is an internationally recognised provider of world-class education and research. The research-intensive Faculty has a gross budget of almost \$300 million, employs approximately 1000 continuing and fixed-term staff (headcount), has a community of more than 4000 non-salaried academic appointees and around 3200 students (headcount).

The Faculty of Medicine offers Australia's largest medical degree program for graduates and school-leavers. Undergraduate and postgraduate programs are available in the disciplines of Medicine, Health Sciences, E-Health, Mental Health, Biomedical Sciences and Public Health.

The Faculty possesses enormous strengths spanning research, teaching, industry engagement and clinical practice in disciplines ranging from the basic sciences, biomedical research and development, to clinical trials and public health. Research projects within the Faculty have already led to discoveries with far-reaching social and economic impacts, including the revolutionary Gardasil (TM) vaccine for cervical cancer (Professor Ian Frazer) and a drug discovery EMA401 (Professor Maree Smith), a first-in-class oral treatment for chronic pain which through Spinifex Pharmaceuticals led to Australia's largest biotechnology commercialisation deal. Faculty staff include three highly cited authors, one Fellow of the Royal Society (FRS), three Fellows of the Australian Academy of Science (FAA) and 12 Fellows of the Academy of Health and Medical Sciences (AAHMS). The Faculty is a core member of Brisbane Diamantina Health Partners, the Brisbane-wide academic health science system.

Educational offerings in biomedical sciences, medicine and public health are informed and supported by research activity across a range of fundamental and clinical areas of importance including recognised strengths in cancer, skin diseases, brain and mental health, maternal and child health and genomics. Cutting-edge facilities such as the Herston Imaging Research Facility (HIRF), the UQ Centre for Clinical Research (UQCCR), our laboratories in the Translational Research Institute (TRI) and the new Centre for Children's Health Research (CCHR) enable outstanding research outcomes and sharpen our understanding of cancer, autoimmunity, mental disorders, infectious diseases and neurological disease. Further details are available at www.medicine.uq.edu.au.

UQ Centre for Health Services Research

The UQ Centre for Health Services Research is one of five Research Centres in the Faculty of Medicine. The primary purpose of the Centre is to improve the delivery of health care through research which examines health systems performance and identifies mechanisms to improve access, effectiveness and efficiency. The Centre has research strengths in telehealth, geriatric medicine and aged care, renal medicine, clinical trial design and administration and biostatistics. The Centre engages 27 clinicians and research staff, 55 professional staff and has a large cohort of higher degree research students. The Centre works closely with the other Research Centres in the Faculty of Medicine (UQDI, UQCCR, UQCHRC), the Faculty of Health and Behavioural Sciences and also with Metro South Hospital and Health Services. The Centre is the Australian Coordinating Centre for interRAI and leads international development of its hospital assessment systems related to function and psychosocial problems. It has extensive related data holdings.

The vision of the UQCHSR is to improve health outcomes for patients, with a particular focus on those with chronic disease or frailty, for remote communities and those with other forms of disadvantage or vulnerability. This will be achieved through strong engagement of researchers and practitioners across the translational spectrum, from basic, through clinical and health trials, to implementation, this will enable outcomes such as improved health care services, new clinical products, policies or educational improvements. UQCHSR will be recognized for its strong engagement with the Princess Alexandra Hospital and industry, and outcomes arising from addressing clinically important research questions. It will also have a reputation for the provision of outstanding clinical research training, pre-clinical and clinical research services (e.g. clinical trials design and data analysis), and clinical trial linked service provision.

The UQCHSR is located at the Princess Alexandra Hospital campus in Woolloongabba, South Brisbane and the Health Sciences Building at the Royal Brisbane Women's Hospital campus in Herston, with activities based in the Hospital, the Clinical Research Facility and associated with research activities both nationally and internationally. Information about the Faculty and the School may be accessed on the Faculty's web site at <http://www.uq.edu.au/faculty-school>.

Organisational Environment

This position will be hosted by the Research and Statistical Support Service (RASSS) based at the UQ Centre for Health Services Research, Faculty of Medicine and seconded to the Queensland Cyber Infrastructure Foundation Limited (QCIF).

Founded in 2000, QCIF is a not-for-profit company whose mission is to improve the quality and efficiency of data-centric research in Queensland. QCIF's members are the seven research intensive universities in Queensland.

QCIF Bioinformatics is a leading provider of bioinformatics, biostatistics and biodata services for life science and clinical researchers. Working closely with researchers, the QCIF Team members apply data management, integration, analysis and visualisation techniques to maximise the potential value of large-scale biological and clinical datasets.

Details about QCIF may be accessed on the QCIF website at <http://qcif.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>

DUTY STATEMENT

Primary Purpose of Position

This position offers an outstanding opportunity to work with leading clinicians and scientists and contribute to cutting-edge research projects in the medical, public health and social sciences.

The types of analysis may include but are not limited to:

- Exploratory statistical analysis and data mining.
- Statistical consulting for clinicians and researchers for basic and high-level aspects of their research.
- Clinical trial design and analysis.
- Experimental design.
- Analysis and interpretation of public health data

The position involves identifying and gathering analysis requirements from a wide range of life science and clinical researchers and delivering efficient statistical solutions to meet research outcomes. A high degree of autonomy and professionalism is required to represent QCIF on partners' premises.

Duties

Duties and responsibilities include, but are not limited to:

- Consult, interface and communicate with researchers to understand their research questions and statistical requirements, and provide necessary biostatistics support required to meet research goals
- Develop project evaluations and proposals with researchers
- Provide expertise to design and implement biostatistics solutions to solve complex data science problems
- Undertake exploratory and inferential statistical analysis (such as PCA analysis, Factor analysis, Structural Equation Modelling) and data mining
- Perform longitudinal and hierarchical data analysis using linear, non-linear models and mixed models
- Contribute to the development and delivery of training programs
- Where appropriate report research results to the scientific community via reports, posters, papers and presentations
- Where appropriate, supervision or shared supervision of other staff, interns and/or students in relevant projects
- Foster the Centres relations with industry, government departments, professional bodies and the wider community
- Contribute to the processes that enable the academic team to manage the work of the Centre, participate in Centre decision-making, and serve on Centre committees and/or other Committees as required
- Actively participate in the Institute's mentoring programs
- 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 Associate Professor Jason Ferris, Head of Research and Statistical Support Services, CHSR and Dr Anne Bernard, Head of Biostatistics QCIF Bioinformatics.

SELECTION CRITERIA

- A postgraduate qualification in statistics or closely related quantitative discipline with significant experience as a biostatistician; or an equivalent combination of relevant experience and/or education/training
- At least 3 years of experience in providing statistical expertise in life sciences, public health and medical research
- Demonstrated broad expert knowledge in the area of medical biostatistics in relation to clinical and health services research, surveys and epidemiology, including study design, power calculations and analysis of clinical trials, administrative and longitudinal datasets
- Ability to communicate with clinicians and scientists to understand their needs
- Demonstrated expertise in the use of R, Stata, SAS or other statistical environments
- Ability to relate to a wide range of scientific research and medical disciplines
- Experience with grant writing and publishing
- Knowledge of project management methodologies
- Experience with managing diverse client relationships and engaging with clients in a professional manner

Vaccinations and Immunisation

It is a condition of employment for this role that if you are required now or in the future, to work or interact in Queensland Health clinical facility; or in an equivalent clinical health facility; or health care role; or will be required to perform work tasks that put you at risk of exposure to vaccine-preventable disease you are required to be immunised against, and remain immunised against, certain vaccine preventable diseases (VPDs) in accordance with the University's Vaccinations and Immunisation Guidelines (PPL 2.60.08). The employee is required to provide evidence of immunisation against VPDs.

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](#) 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. The candidate must have rights to work in Australia and be located in Brisbane, Queensland (or able to relocate to Brisbane).

Accessibility requirements and/or adjustments can be directed to recruitment@uq.edu.au.