

## Research at Griffith

Griffith University is a member of the Innovative Research Universities group and is regarded as one of Australia's most progressive tertiary institutions. We offer Higher Degree by Research (HDR) candidates unique opportunities to explore collaborative, interdisciplinary and socially responsive research with internationally recognised researchers and supervisors from a broad range of disciplines. Unlock your research potential at a top-ranked institution with a vibrant research culture.

### Why choose Griffith?

- **World standard rankings** - Griffith is in the top 400 universities worldwide in three major rankings – Academic Ranking of World Universities, QS World University Rankings and the Leiden Ranking. We're also 10th in Australia on the Nature Publishing Index – Asia-Pacific Top 200 (2009-2013).
- **Find your supervisor** - We make finding the right supervisor with the expertise that fits your research project easy. Search for supervisors in your discipline on our Research Hub [research-hub.griffith.edu.au](http://research-hub.griffith.edu.au)
- **Innovative research network** - Access over 30 research institutes and centres including world-class research facilities, in our Brisbane and Gold Coast campuses.
- **Learn from the best** - We're home to over 2,000 research experts who are at the cutting edge in their fields.
- **Research support** - You'll receive professional development and skills training, learning and personal support services, and opportunities to work with national and international partner collaborators.

### Student Support at Griffith

- **Academic English help** - HDR students are able to make two 45 minute individual appointments per week with an EnglishHELP tutor to help you develop and refine your academic English language skills. Group HDR Language workshops are also available and can help you write clearly and concisely and improve the structure and cohesion of your thesis.
- **Academic workshops** - The library offers a range of free workshops on computer programs you'll need as a HDR student including EndNote (referencing), Microsoft Word

(formatting long documents), Powerpoint (interactive presentations) and Statistical Package for Social Sciences (SPSS).

- **Research support** - Griffiths' Research Methodologist can advise on a wide range of qualitative and quantitative methods, and provide access to specialised external consultants in statistics and NVivo, at no cost to the HDR candidate.
- **Library assistance** - Griffith has a dedicated Academic Services Librarian who has specialist knowledge to help HDR students with their research-specific information needs.
- **Reach your potential** - As a research student at Griffith, you'll enjoy personalised support from specialised staff as well as a wide range of advantages, including funding for conference travel, opportunities to acquire enhanced skills and training, tailored seminars, and workshops in research management.

## Research Excellence

### Water science

Since establishing Australia's first School of Environment 30 years ago, Griffith has maintained an international reputation for excellence in environmental research. The Australian Rivers Institute is home to over 20 scientists and research students, making it the largest concentration of university-based water researchers in the country.

The Institute plays a leading role in managing water resources with a focus on freshwater, estuarine and urban water. On-campus facilities include the state-of-the-art \$18 million Queensland Smart Water Research Facility, which provides Griffith researchers access to specialised laboratories and cutting-edge water research opportunities.

### Drug discovery and infectious diseases

Griffith University is a leader in drug discovery with a strong focus on infectious diseases. The University's top chemists, biologists and health-care scientists are tackling cross-disciplinary solutions to a wide range of diseases.

Griffith's Institute for Glycomics leads international research in the new science of carbohydrates-based drug discovery. The Institute is the only one of its kind in Australia and one of only six in the world. In 2013, researchers at the Institute made a crucial step towards the development of a

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malaria vaccine after successfully inducing malaria immunity in animals. First-stage human trials are now underway.

Griffith's Eskitis Institute is home to the Queensland Compound Library – Australia's only integrated compound management and logistics facility – and the Nature bank, a unique collection of over 200,000 samples derived from plants and marine invertebrates. The Bank is shared with researchers around the world who test the library to find compounds that could be developed into new drugs.

### **Climate change adaptation**

The Griffith Climate Change Response Program (GCCRP) leads Griffith University's research into climate change adaptation and mitigation. The program promotes a multidisciplinary approach to climate change research inclusive of the environmental, social, economic and governance dimensions.

GCCRP helps fund, promote, and coordinate a range of cooperative, multidisciplinary research projects with colleagues nationally and internationally, and operates an ongoing program to support international research visitors.

### **Health and chronic diseases**

Griffith's Health Group is one of the fastest growing in the country. The University has established a unique health and knowledge precinct with the co-location of the Gold Coast University Hospital, Griffith Health Centre and Griffith Health Institute at the Gold Coast campus.

The Griffith Health Institute brings together clinical researchers and scientists working on some of the world's most important health research areas such as cancer, heart disease, population trends, psychology and diabetes. The Institute focuses on innovations in the delivery of health care and promotes early intervention and prevention of diseases and disorders within the community.

In a world first, Griffith offered postgraduate programs in suicidology in 2001. Since then, the Australian Institute for Suicide Research and Prevention, located at our Mt Gravatt campus, has been at the forefront of national and international suicide research. In affiliation with the World Health Organisation, the Institute conducts research in all aspects of suicide prevention.

### **Physical sciences**

Griffith's Centre for Quantum Dynamics has world-leading research in ultrafast quantum processes, quantum information, and quantum foundations, with strong collaborations between its theorists and its experimentalists. The Centre hosts the Queensland Nodes of two Australian Research Council Centres of Excellence: the Centre for Quantum Computation and Communication Technology, and the Centre for Coherent X-ray Science. It is also home to the Australian Attosecond Science Facility, the only place in Australia where atoms and molecules can be probed on sub-atomic timescales.

Griffith's Queensland Micro- and Nanotechnology Centre carries out world-leading academic and commercial research on micro- and nanotechnology problems that are integral to the development of clean and intelligent systems. It has particular strengths in sustainable energy technologies, novel devices and materials, theory and modelling.

### **Environmental sciences**

Environmental Science at Griffith is largely addressed through the activities of the Environmental Futures Research Institute. The institute has become a major centre of research excellence in environmental sciences with 40 active researchers, 16 international visitors, 42 adjunct staff, 26 technical and administrative staff and more than 79 Higher Degree Research (HDR) students.

The Environmental Futures Research Institute is trans-disciplinary, solutions oriented, locally active yet globally engaged, and diverse in research expertise - combining fundamental, applied and social sciences. The Institute's multidisciplinary nature emerges from synergies of the Griffith School of Environment and School of Biomolecular and Physical Sciences academics and students.

## Nursing

Nursing research at Griffith University is conducted through the Centre for Health Practice Innovation, established in 2003. The Centre for Health Practice Innovation (HPI) has world leading nurse researchers in the areas of Acute and Critical care, Ageing and Older People, and Family and Midwifery.

The first National Centre of Research Excellence in Nursing Interventions for Hospitalized Patients (NCREN) sits within HPI. The Centre was awarded \$2.5 million funding from the National Health and Medical Research Council and the researchers are building an unprecedented body of evidence to inform nursing practices on skin integrity and symptom management into the future.