

POSITION DESCRIPTION

Position Title:	Research Support Officer
Organisation Unit:	Centre for Advanced Imaging
Position Number:	3027425
Type of Employment:	Part-time (0.8FTE) 12-months fixed-term
Classification:	HEW Level 6

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 (40), the US News Best Global Universities Rankings (42), QS World University Rankings (47), Academic Ranking of World Universities (54), and the Times Higher Education World University Rankings (66). 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 53,000-plus strong student community includes more than 16,400 postgraduate scholars and more than 17,000 international students from 135 countries, adding to its proud 260,000-plus alumni. The University has more than 6,600 academic and professional staff (full-time equivalent) and a \$2.15 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+.

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 Centre for Advanced Imaging (CAI) is a strategic initiative of The University of Queensland, reflecting the growth in biotechnology, biomedical and materials research requiring advanced imaging capabilities. As a leading imaging research facility in Australia, and one of a handful in the world, CAI brings together the skills of a critical mass of researchers and 'state-of-the-art', world- or Australian-first research imaging instruments. NMR, EPR, MRI, PET, CT and optical imaging are now key platform research technologies for studying the structure and function of biomolecules and living organisms, from proteins to the human.

CAI conducts research across the spectrum from development of new imaging technologies, analysis of molecular structure, synthesis of MRI and PET biomarkers targeting fundamental biological processes to studies of major diseases, such as neurodegenerative disorders, cancer and cardiovascular disease, affecting a range of organ systems, through to imaging economically significant agricultural animals and plant material, minerals and construction materials.

Further details on the Centre for Advanced Imaging and the research interests of its staff can be accessed on the web site at <http://cai.uq.edu.au>.

Information for Prospective Staff

Information about life at UQ including staff benefits, relocation and UQ campuses is [available online](#).

DUTY STATEMENT

Primary Purpose of Position

The purpose of this role is to provide technical research support to imaging projects and facilities at the Centre for Advanced Imaging. This role is responsible for the operations of Centre's Optical Imaging Facility including the InVision 256_TF MOST imaging system, the In-Vivo MS FX PRO optical imaging system, a Nikon Eclipse Ti inverted fluorescent microscope and a Leica CM3050 S Cryostat. The successful candidate will actively participate in the provision of technical support to imaging-based projects at CAI by facilitating system training and user access, and by providing advice on relevant research project design best practice.

Duties

Duties and responsibilities include, but are not limited to:

- Coordinate the day to day operation and maintenance of the optical imaging facility and associated equipment including management of instrument bookings, routine

maintenance including liaising with vendors for equipment maintenance and repairs, and the procurement facility supplies and consumables.

- Promote smooth operation of the facility by leading user inductions to the lab; conducting instrument specific training, trouble shooting and technical support to internal and external users for proper and efficient use of the equipment. This may include facilitating user training and trouble-shooting on cryostat cutting, histological staining and immunostaining.
- Provide assistance to research projects related to optical imaging, MOST, PET/CT and PET/MR, including expertise in small animal procedures, in particular, tail vein injection and cannulation, and biodistribution.
- Perform animal procedures and manipulations, including animal handling and care, anaesthesia, surgery, injections, cannulations, dissection, biodistribution, perfusion and tissue processing and storage.
- Perform sectioning, in particular, of large samples while maintaining sample integrity, and undertake biodistribution measurement of radioactive signals.
- Perform high-quality immunohistochemistry and immunofluorescence staining on samples.
- Undertake processing, analysis and interpretation of optical imaging data, and provide reports to principal investigators when 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 Centre Manager and is responsive to the Deputy Director (Technology).

SELECTION CRITERIA

Essential

- Undergraduate degree in a related discipline with subsequent relevant experience, or extensive experience and specialist expertise in a relevant field, or an equivalent combination of relevant experience and/or education/training in a research related environment.
- Demonstrated competence in the conduct of general laboratory and animal experimental procedures, or the ability to rapidly acquire these skills.
- An understanding of safe laboratory working practices.
- High level of written oral and interpersonal skills, including the ability to effectively liaise and communicate with people at all levels of the organisation, work collaboratively with colleagues including other research staff and in a team environment. High level of organisational skills and the ability to work independently with limited direction and able to schedule and prioritise own workload to ensure deadlines are met and using own initiative, whilst demonstrating accuracy and strong attention to details.

Desirable

- An understanding of the principals involved in scientific imaging processes
- Familiarity with University systems, policies and procedures, including research project planning and ethics.

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.

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