Postdoctoral Research Fellow - Centre for Advanced Imaging

Apply

- St Lucia Campus
- Full time
- Posted 2 Days Ago
- R-14646

- Centre for Advanced Imaging
- Academic level A
- Fixed-term position for up to 3 years
- Closing date Saturday 27th August 2022 at 11.00pm AEST
- UQ Careers: R-14646

About This Opportunity

This is an exciting opportunity for a Postdoctoral Researcher to perform MRI sequence programming and develop super-resolution deep-learning methods to quantitate kidney glomeruli ex vivo and tubular structure in vivo as part of a research team funded by an Australian Research Council Discovery Project grant. This position may also be required to contribute to PhD student supervision.

Key responsibilities will include:

Research

- Support research activities, as directed, in the area of kidney MR imaging in human and in a mouse model.
- Develop methods that counter the effects of physiological motion on in vivo diffusion imaging of renal tubules, including:
  - motion insensitive MRI sequences for in vivo kidney imaging,
  - super-resolution deep learning approaches to quantitate glomeruli and to encounter the effects of physiological motion.
- Data management of the project.
- Assist in the application for external research funding.

Supervision and Researcher Development
• Contribute to the Centre's teaching activities.
• Consult with students
• Working to promptly resolve conflict and grievances when they arise in accordance with University policy and procedures.

Collaboration
• Provide support to other academic positions and unit operations as needed during other team members' absences.
• Contribute to internal service roles and administrative processes as required, including participation in decision-making and service on relevant committees.
• Begin to develop external links and partnerships by cultivating relationships with industry, government departments, professional bodies and the wider community.

This role is subject to The University's Code of Conduct.

About You

Essential
• PhD in the area of magnetic resonance imaging with skills in sequence programming, image processing and analysis.
• Evidence of a contribution to research as evidenced by number and quality of peer-reviewed journal publications.
• High level of interpersonal and communication skills.
• High attention to detail with a combination of strong planning skills.
• Adaptability and flexibility to problem-solving to meet changing needs.

Desirable
• A high level of skill image processing using deep learning/Al.
• A high level of proficiency in scientific computer programming.
• Contribution to effective supervision of students.

What We Can Offer

This is a full-time, fixed-term position through to May 2025 at Academic Level A.

The full-time equivalent base salary will be in the range $72,144 - $96,530 plus super of up to 17%. The total FTE package will be in the range $84,408 - $112,940 per annum.

For further information about UQ's benefits, please visit Why Work at UQ and review The University of Queensland's Enterprise Bargaining Agreement 2018 - 2021.

Questions?

To discuss this role please contact Professor David Reuten (CAI Director) at pa@cai.uq.edu.au

For application queries, please contact recruitment@uq.edu.au stating the job reference number in the subject line.

Want to Apply?

All applicants must upload the following documents in order for your application to be considered:
• Cover letter addressing the ‘About You’ section
• Resume

Please note that you will be asked to add all documents into the one upload box during the application form.

About the Selection Process

To satisfy pre-requisite questions and ensure your application can be considered in full, all candidates must apply via the UQ Careers portal by the job closing deadline or will not be accepted.
**Other Information**

**Mandatory Immunisations:** It is a condition of employment for this role that you will be required to provide evidence of immunisation against certain vaccine preventable diseases. As this position is based in a Queensland Health facility, this may include the COVID-19 vaccination.

**Sponsorship:** Visa sponsorship may be available for this appointment.

We value diversity and inclusion, and actively encourage applications from those who bring diversity to the University. Our [Diversity and Inclusion webpage](#) contains further information if you require additional support. Accessibility requirements and/or adjustments can be directed to [recruitment@uq.edu.au](mailto:recruitment@uq.edu.au).

If you are a current employee of the University, or hold an unpaid or affiliate appointment with the University, please login to your staff [Workday account](#) and visit the internal careers board to apply for this opportunity. Please do NOT apply via the external job board.

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**About Us**

The University of Queensland (UQ) is one of Australia's leading teaching and research universities, and ranks among the world's top universities according to several key independent rankings. More than 56,000 current students – including the majority of Queensland's highest academic achievers and international students from 134 countries – currently study across UQ's three campuses in South East Queensland. With a strong focus on teaching excellence, UQ has won more national teaching awards than any other Australian university, and UQ's six faculties, eight globally recognised research institutes and 100+ research centres attract

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