

Research Associate

School of Optometry and Vision Science

Faculty of Health



a university for
the real world



About the School of Optometry and Vision Science

The School of Optometry and Vision Science (and its predecessors) have provided optometric education in Queensland at tertiary level since 1966. The School provides high-quality optometric education which prepares graduates for a life-long career as a practising optometrist, with hands-on experience in the on-campus optometry clinic, and through external clinical activity.

The School is proud of its longstanding strong and vibrant research culture, which informs our teaching and prepares our graduates for the future development of their practice as optometrists.

The School is at the forefront of a range of research developments which underpin major technological advances in the correction of defects of vision, the diagnosis and assessment of ocular and vision problems, and the functional impact of vision impairment. Our research brings together eye and vision researchers from the School of Optometry and Vision Science, and other related disciplines.

The School of Optometry and Vision Science has an international reputation for excellence in research, with researchers receiving international awards recognising long-standing research excellence. Research results are published in high ranking international journals, as well as professional journals to promote the translation of research into clinical practice.

About the Position

The Research Associate will work within a program of Australian Research Council funded research investigating retinal directionality, which is the reduction in brightness when a light beam's entry into the human eye is shifted from the centre to the edge of the pupil (known as the Stiles-Crawford effect). This influences retinal image quality and can be used to measure changes in shape of the peripheral eye.

This project will apply advanced technologies in holography, head-up displays and astronomy to explore how retinal directionality changes during accommodation (focusing).

This position reports to the Professor in Optometry and Vision Science [Professor David Atchison] for supervision, workload management and for Performance Planning and Review (PPR).

Key responsibilities include:

- Designing and building the retinal directionality measuring systems and retinal imaging systems.
- Developing the software to run the systems and image acquisition.
- Designing and undertaking research tasks including experimental design, data collection, data entry and statistical analysis of results.
- Cross-institutional collaboration with co-investigator/s in the project.
- Assisting with the supervision of doctoral students.
- Prepare and publish research outcomes in relevant referred international journals and present research at seminars and conferences.
- Preparing grant proposals for research funding applications.
- Complying with health and safety policies, procedures, hazard reporting and safe work practices.

Real World Capabilities

To deliver on QUT's global, collaborative and connected vision requires a workforce that embodies the following capabilities:

- Agility and openness to change
- Connectivity and collaboration (intra and inter-disciplinary)
- Cultural inclusion
- Digital literacy
- Future-focused thinking (strategic, innovative & design and entrepreneurial)
- Global in intent and reach
- Leadership of strategy, action and others
- Performance and resource management

Type of appointment

This appointment will be offered on a fixed-term, full-time basis until 31 December 2021.

Location

Kelvin Grove campus

Selection Criteria

1. Completion of a doctoral qualification in the relevant disciplinary areas of physics, optical engineering or visual optics or equivalent accreditation and/or standing.
2. Experience in the field of optics, imaging analysis and particularly in digital holography.
3. Demonstrated experience within a research project to produce a published outcome.
4. Proficiency in computer programming, such as use of Matlab and/or C, combined with demonstrated experience in the use of computer and statistical software.
5. High level of interpersonal skills and demonstrated ability to establish and maintain effective working relationships with a range of stakeholders internally and externally.
6. Demonstrated ability to work effectively as part of an interdisciplinary team and the ability to work independently.

Remuneration and Benefits

The classification for this position is Academic Level B (LEVB) which has an annual remuneration range of \$AUD112,913 to \$AUD134,098 pa. which is inclusive of an annual salary range of \$AUD95,413 to \$AUD113,314 pa, 17% superannuation and 17.5% recreation leave loading.

Beyond personal and professional fulfilment, a career at QUT brings a broad range of tangible benefits. With competitive remuneration including superannuation, the University offers real and generous benefits.

QUT is a high quality and flexible organisation that is proud of its excellent employment conditions which include but are not limited to:

- Reduced working year scheme
- Parental leave provisions
- Study support encompassing leave and financial assistance
- Comprehensive professional development
- Salary Packaging

Further benefits can be found at the [Working at QUT](#) page.



Information for applicants

For further information about the position, please contact Professor David Atchison, on +61 7 3138 6152; or for further information about working at QUT contact Human Resources, on +61 7 3138 4104.

QUT is proud to be an inaugural Athena SWAN charter member. We have extensive and established support programs for women in STEMM. For more information on the Athena SWAN charter, contact Smitha Mandre-Jackson on +61 7 3138 0074 or Tracy Straughan +61 7 3138 1584.

How to Apply

For further information and to apply, please visit www.qut.edu.au/jobs for reference number **19406**.

When applying for this position your application must include the following:

- A current resume

Applications close 2 June 2019

Our Vision

The [QUT Blueprint 5](#) is our institutional strategic plan. It sets out priorities, strategies and key performance indicators to drive greater coherence and coordination of our efforts. Our overall vision for the future is:

- to provide outstanding real world education through physical and virtual learning environments and innovative courses that lead to excellent outcomes for graduates living in a diverse and complex environment characterised by rapid, transformative change;
- to focus on being a globally leading university that delivers solutions to the challenges of today and of the future through high-impact research that spans discipline boundaries and works in partnership with end users, leveraging our deep technological strengths and alignment to the human capital and innovation needs of the global economy;
- to strengthen and extend partnerships with professional and broader communities to build our reputation as a source of knowledge that is applied to real world challenges.