MPhil and PhD Scholarships in Biomedical Imaging Technology-
Molecular Imaging.

Organisation Unit: The University of Queensland, Centre for Advanced Imaging
ARC Training Centre for Innovation in Biomedical Imaging Technology (CIBIT)

Position Number:

Type of Employment: Full time-Fixed term, HDR Scholarship

Salary: Research Scholar BAND

We are seeking high-achieving graduate students to undertake postgraduate research into the
development and application of novel molecular imaging methodologies. In particular, the candidate
will be involved in development of quantitative methods to improve the sensitivity and specificity of
PET and MRI-PET imaging. Applicants should have a background in the physical sciences including
disciplines such as biomedical engineering, engineering, information technology, physics and
mathematics or a related field. Applicants should possess analytical and computational skills,
including working with equations, simulations and computer programs and an interest in Imaging
Modalities and Healthcare IT Solutions. Scholarships will include an industry placement totaling 12
months over the duration of the MPhil or PhD.

The Australian Research Council Training Centre for Innovation in Biomedical Imaging Technology
(CIBIT) is a multidisciplinary collaboration between researchers at The University of Queensland’s
Centre for Advanced Imaging and partners in the Medical Technologies and Pharmaceutical industry.
The purpose of this national Centre is to provide research training in the development and
application of novel diagnostics, therapeutics and theranostics (combined therapeutics and
diagnostics) in conjunction with industry partners.

CIBIT’s research encompasses two major themes; this project will be specifically related to Theme 2.

Theme 1: Diagnostics, therapeutics and theranostics for Precision Medicine in cancer.
Theme 2: Harnessing the digital revolution to improve diagnostic imaging cost-effectively.

CIBIT is supported by industry partners Siemens Healthcare Pty Ltd, BGI International Pty Ltd, Inter-K
Peptide Therapeutics, Clarity Pharmaceuticals Pty Ltd, Minomic International Ltd, Theranostics
(Australia) Pty Ltd, Brisbane Veterinary Specialist Centre, Uniting Care Medical Imaging Pty Ltd and
Red Radiology Pty Ltd.

Further details can be found on the CIBIT website: http://www.cibit.org.au/.
The Centre for Advanced Imaging

The Centre for Advanced Imaging (CAI), a strategic initiative of The University of Queensland, is a leading imaging research facility in Australia, and one of a handful in the world. It brings together the skills of a critical mass of researchers and state-of-the-art, world- or Australian-first imaging research instruments including NMR, EPR, MRI, PET, CT, optical imaging and an on-site cyclotron and radiochemistry facilities. CAI hosts the largest Node of the National Imaging Facility (NIF) (http://anif.org.au/).

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 affecting a range of organ systems, through to imaging economically significant agricultural animals and plant material, minerals and construction materials.

A multidisciplinary, cohesive student community have come together from all over the globe to CAI to undertake research training. The Centre has an active student association (STAC) that provides many opportunities for networking and professional development, a supportive mentoring structure that will enhance personal and professional growth, an annual symposium and a well-attended weekly seminar program which attracts high profile National and International speakers.

Further details on the Centre for Advanced Imaging and ongoing research can be found on CAI’s website http://www.cai.uq.edu.au/.

CAI is committed to supporting the career growth of female researchers and have a number of initiatives to support females in developing and achieving a fulfilling research career at the institute. For more information, please visit our CAI Women in Imaging website at https://cai.centre.uq.edu.au/women-imaging.

The candidate

Applications are invited from outstanding and enthusiastic graduates with relevant backgrounds. Students may be domestic or international of high scholarly calibre and will have a First Class Honours degree, Masters degree or equivalent. Applicants must meet the requirements for admission into the UQ Graduate School MPhil program (https://graduate-school.uq.edu.au/uq-research-degrees) and should also be eligible for a UQ Graduate School Scholarship (UQGSS) (https://graduate-school.uq.edu.au/scholarships).

Remuneration

The base stipend for PhD scholars will be at the rate of AUD $31,828 per annum (2018 rate) tax-free for three years with the possibility of two six month extensions in approved circumstances. The base stipend for MPhil Scholars will be at the rate of AUD $31,828 per annum (2018 rate) tax-free for two years with the possibility of one six month extension in approved circumstances.

Enquiries: For enquiries specific to this project please email David Reutens (d.reutens@uq.edu.au).

To submit an application for this role, please send your application to administrator@cibit.org.au. All applicants must supply the following documents

- Cover letter supporting your application, which for example details why you are interested in the CIBIT program, your career aspirations, and the skills you bring and want to develop in the program.
- CV (please also outline your work experience, skills, and interests and hobbies)
- Details of two referees.
• International applicants: Evidence for meeting UQ’s English language proficiency requirements [https://graduate-school.uq.edu.au/english-language-proficiency-requirements](https://graduate-school.uq.edu.au/english-language-proficiency-requirements)

• Academic transcript for all post-secondary study undertaken, complete or incomplete, including the institution grading scale.