



# RESEARCH FELLOW

DEPARTMENT/UNIT	School of Psychological Sciences
FACULTY/DIVISION	Faculty of Medicine Nursing and Health Sciences
CLASSIFICATION	Level A
DESIGNATED CAMPUS OR LOCATION	Clayton campus

## ORGANISATIONAL CONTEXT

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Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at [www.monash.edu](http://www.monash.edu).

The **Faculty of Medicine, Nursing and Health Sciences**, is the largest faculty at Monash University, and offers the most comprehensive suite of professional health training in Victoria. We consistently rank in the top 40 universities worldwide for clinical, pre-clinical and health sciences. We want to improve the human condition. That is our vision - it has no expiration date. Through academic health centres, other translational models and by educating the healthcare workforce of the future, our staff, students and alumni directly improve quality of life. Setting the global health care agenda, the Faculty aspires to lead in all areas of research activity and influence local, national and international policy to improve health and social outcomes and health inequalities. We've made a major impact in the world of medical research and become globally recognised for our quality education of over 41,000 doctors, nurses, and allied health professionals. We are ambitious and aim to maintain our position as a leading international medical research university. We're recognised for the breadth and depth of our research, for our commitment to translational research, for the quality and scale of our research capability, and as a thriving biotechnology hub. To learn more about the Faculty, please visit [www.monash.edu/medicine](http://www.monash.edu/medicine).

The **Monash School of Psychological Sciences** is ranked among the best in the world. Our School's mission is to develop students and research outcomes that make significant contributions to improving the lives of others globally. Our overarching vision is to make significant and long-lasting impact that changes the world around us, beginning in infancy and across the lifespan. Drawing on the expertise of our staff and the University's unique research platforms and technology, our mission is to sustain and build on Monash's position with world-class research and teaching in Psychology. For more information about us and the work we do, please visit [www.monash.edu/medicine/psych](http://www.monash.edu/medicine/psych).

Housed within the School of Psychological Sciences, the Turner Institute for Brain and Mental Health is a world-leading institute dedicated to making significant contributions to basic and translational research, clinical care, and research training in brain and mental health. The Institute represents the largest grouping of cognitive and clinical

neuroscientists in Australia and Asia Pacific. To learn more, please visit [www.monash.edu/turner-institute/research](http://www.monash.edu/turner-institute/research).

**Monash Biomedical Imaging (MBI)**, where this position sits, is the Monash University research platform of excellence for biomedical imaging. MBI hosts state of the art MRI facilities for animal and human imaging, and molecular and X-ray imaging facilities for investigating small animal models. These capabilities are supported by expert personnel and a suite of ancillary facilities, including patient support, radiobiology and (limited) short-term animal holding. MBI conducts basic and translational research of the highest quality, increases skills in biomedical imaging amongst research staff and higher degree by research students, and provides user access to internal and external researchers. These core drivers of the facility's activities aim to provide cutting edge and high-quality research imaging modalities to biomedical and non-biomedical researchers.

## POSITION PURPOSE

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A Level A research-only academic is expected to contribute towards the research effort of the University and to develop their research expertise through the pursuit of defined projects relevant to the particular field of research.

The position will generate research relevant for the design and analysis of simultaneous MRI-PET and MRI projects. The applicant will have a PhD in neuroscience, biomedical engineering, medical physics or related discipline, and will be seeking to develop an academic career in neuroimaging research. Strong quantitative skills and experience in PET and/or MRI are essential. The incumbent will have access to career and research grant proposal development support, and will be expected to contribute to manuscript preparation of MRI-PET and MRI projects. Supervision of graduate students and research assistants may also be required.

**Reporting Line:** The position reports to the Head of Cognitive Neuroimaging and the Director of Monash Biomedical Imaging

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

## KEY RESPONSIBILITIES

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Specific duties required of a Level A research-only academic may include:

1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research
2. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
3. Limited administrative functions primarily connected with the area of research of the academic
4. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff
5. Occasional contributions to teaching in relation to her/his research project(s)
6. Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures
7. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees
8. Advice within the field of the staff member's research to postgraduate students
9. Other duties as directed from time to time

## KEY SELECTION CRITERIA

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### Education/Qualifications

1. The appointee will have:
  - An honours degree in neuroscience, biomedical engineering, medical physics or progress towards a doctorate in the relevant discipline from a recognised university or equivalent qualifications and research experience in the area
  - a PhD in neuroscience, biomedical engineering, medical physics or related discipline from a recognised university or equivalent qualifications and research experience in the area

### Knowledge and Skills

2. Demonstrated strong report and publication preparation skills; including a track record of refereed research publications
3. Exceptional analytical and statistical analysis skills, experience in handling large datasets and experience in programming
4. The ability to prepare and communicate the aims and outputs of research projects in a range of formats including formal and informal oral presentations, refereed research papers and reports
5. Well-developed planning and organisational skills, with the ability to prioritise multiple tasks and set and meet deadlines
6. Excellent written communication and verbal communication skills with proven ability to produce clear, succinct reports and documents
7. A demonstrated capacity to work in a collegiate manner with other staff in the workplace as well as the ability to work independently in a research environment (with limited supervision)
8. Demonstrated computer literacy and proficiency in the production of high level work using software such as Microsoft Office applications and specified university software programs, with the capability and willingness to learn new packages as appropriate
9. Well-developed computer literacy (i.e., use of high-performance computing, Matlab/Unix/other computer languages).
10. Familiarity and competence with functional, structural and/or molecular neuroimaging methods (e.g., PET, MRI)
11. Familiarity and competence with neuroimaging data acquisition and management procedures

## OTHER JOB RELATED INFORMATION

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- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- There may be a requirement to work evenings and weekends from time to time

## GOVERNANCE

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Monash University expects staff to appropriately balance risk and reward in a manner that is sustainable to its long-term future, contribute to a culture of honesty and integrity, and provide an environment that is safe, secure and inclusive. Ensure you are aware of and adhere to University policies relevant to the duties undertaken and the values of the University. This is a standard which the University sees as the benchmark for all of its activities in Australia and internationally.