RESEARCH FELLOW

DEPARTMENT/UNIT
Biochemistry and Molecular Biology

FACULTY/DIVISION
Faculty, Medicine, Nursing and Health Sciences

CLASSIFICATION
Level B

DESIGNATED CAMPUS OR LOCATION
Clayton campus

ORGANISATIONAL CONTEXT

Monash University is a university of transformation, progress and optimism. Our people are our most valued asset, with our academics among the best in the world and our professional staff revolutionising the way we operate as an organisation.

For more information about our University and our exciting future, please visit 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.

The Monash Biomedicine Discovery Institute (BDI) is one of the largest and most dynamic biomedical research and teaching environments in Australia. The Institute and its cognate Departments of Anatomy and Developmental Biology, Biochemistry and Molecular Biology, Microbiology, Pharmacology and Physiology comprise over 120 research groups and deliver discipline-focused teaching into our flagship Bachelor of Biomedical Science Degree, the Bachelor of Science Degree, as well as the Medical School and various Health-related Degree Programs. We pride ourselves on an excellent and evolving teaching curriculum and provide world-class teaching and learning space for Biomedical Sciences.
The BDI comprises six inter-disciplinary health-focused research Programs, each led by a renowned leader in the field. The BDI programs include Infection and Immunity, Cancer, Cardiovascular Disease, Development and Stem Cells, Metabolism, Diabetes and Obesity and Neuroscience. The BDI works closely with clinical and drug development precincts at Monash and has a number of major industry partnerships to facilitate the translation of our research.

For more information about the BDI please visit our website at [www.monash.edu/discovery-institute](http://www.monash.edu/discovery-institute).

The [Department of Biochemistry & Molecular Biology](http://www.monash.edu/discovery-institute/departments/biochemistry-and-molecular-biology) is the largest of the five departments in the School of Biomedical Sciences. Biochemistry and molecular biology are closely-related disciplines which study the chemical components of living cells, including the genetic material, in order to understand biological processes and how these are altered in disease.

Research and teaching in the department encompasses six broad themes: cell biology, signal transduction, host/pathogen interaction, structural biology, immunology and developmental biology. Our research is highly relevant to major human diseases and pathological processes, including infection, inflammation, diabetes and obesity, developmental and degenerative disorders, cardiovascular disease, and cancer. The Department has been ranked as the premier Department in its discipline since the inception of ARC benchmarking of Australian Departments in 1998.


The Structural Virology laboratory leads research on the antigenicity, virulence, evolution and assembly of viruses related to human health. It makes use of advanced structural biology including X-ray crystallography and cryo-electron microscopy to address fundamental questions in the biology of these viral pathogens. The laboratory is funded by competitive grant schemes and also collaborates with commercial partners in the vaccine field.

**POSITION PURPOSE**

A Level B research-only academic is expected to carry out independent and/or team research within the field in which they are appointed and to carry out activities to develop their research expertise relevant to the particular field of research.

The Research Fellow is responsible for undertaking a range of research related activities to advance research programs in Structural Virology. This includes administrative, financial and operational activities and supervising, training and supporting students in the use of the laboratory and laboratory techniques, and assisting with their research.

**Reporting Line:** The position reports to Associate Professor, Structural Virology laboratory

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budgetary Responsibilities:** Not applicable

**KEY RESPONSIBILITIES**

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

1. The conduct of research either as a member of a team or independently and the production of conference and seminar papers and publications from that research

2. Supervision of research-support staff involved in the staff member's research

3. Guidance in the research effort of junior members of research-only Academic staff in their research area

4. Contribution to the preparation or, where appropriate, individual preparation of research proposal submissions to external funding bodies
5. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise

6. Administrative functions primarily connected with their area of research

7. Occasional contributions to the teaching program within the field of the staff member's research

8. Co-supervision or, where appropriate, supervision of major honours or postgraduate research projects within the field of the staff member's area of research

9. 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

10. Other duties as directed from time to time

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
   - a doctoral qualification in the relevant discipline area or equivalent qualifications or research experience

Knowledge and Skills

2. Demonstrated data analysis and manuscript and research proposal preparation skills; including a solid track record of refereed research publications

3. Experience in successfully supervising, mentoring and coaching to support the development of research staff and/or a demonstrated trajectory of leadership capability

4. Experience in supervising and working with major honours or postgraduate students within the discipline

5. The ability to work both independently in a research environment and as part of an inter-disciplinary research team

6. High level organisational skills, with demonstrated capacity to establish and achieve goals

7. Excellent written and oral communication skills

8. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

9. Advanced computer skills with experience using Microsoft Word, Excel and PowerPoint; specific experience in working with a range of data analysis software with the capability and willingness to learn new packages as appropriate

10. Knowledge and expertise in structural biology including X-ray crystallography or cryo-electron microscopy

11. Knowledge and expertise in molecular virology including virus amplification and purification

OTHER JOB RELATED INFORMATION

- 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
GOVERNANCE

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.