

STANDARD TEACHING AND RESEARCH POSITION DESCRIPTION



Position	Postdoctoral Researcher
Level/ Classification	Level B
Reports to	Associate Professor in Pathology
Division	Medical, Molecular and Forensic Sciences
College	College of Environmental and Life Sciences

Position Purpose

The overall research focus of the group is on understanding the cell-mediated and molecular mechanisms driving fibrosis across tissues and organs and in identifying novel therapeutic approaches. This position will investigate the role of autoimmunity in idiopathic pulmonary fibrosis. These studies will build on an established program of research and will involve the analysis of human cells and tissues and animal models. This work is being performed in partnership with the Institute for Respiratory Health. The team are based within the Institute for Respiratory Health Laboratories which are located in the purpose-built Harry Perkins Research building, situated on the QEII medical health campus in Nedlands.

About Murdoch University

Murdoch University is a young and dynamic university with a foundational commitment to the environment, social justice and inclusion, and making education accessible to more people. Founded as Western Australia's second university in 1974, today, Murdoch has more than 21,000 students and 1,700 staff across campuses in Perth, Singapore and Dubai. With more than 90,000 Alumni, Murdoch graduates can be found all over the world, making a positive difference.

Our Strategy – Ngala Kwop Biddi. Building a brighter future, together – guides the University's direction and reaffirms our shared purpose to change lives and society for the better through accessible education and research.

The Strategy is focused on three key themes:

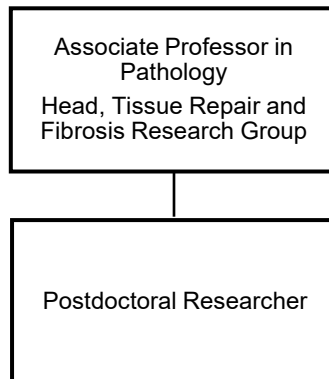
- Sustainability: Be a leading university in education, teaching and translational research in sustainability.
- Equity, Diversity, and Inclusion: Build a welcoming, diverse and inclusive community.
- First Nations: Become the University of first choice for First Nations peoples.

Murdoch is also committed to building engagement with our local community, State, nation, and global society with a track-record in creating strong partnerships with business, government and industry.

About the Work Area

The School of Medical, Molecular and Forensic Sciences is engaged in a wide range of endeavours in the biomedical, medical diagnostic, food science and nutrition, molecular and forensic science fields. Key research areas include infectious disease, anti-microbial resistance, immunology, cancer biology, microbiology, forensic biology, food science and human nutrition. The School offers fascinating and exciting undergraduate and postgraduate teaching programs and is committed to providing a high-quality educational experience for students.

Reporting Relationships



Key Responsibilities / Duties

1. Experimental design, execution, data analysis and interpretation.
2. Careful and accurate documentation of experimental procedures and outcomes.
3. Developing and implementing a project data management plan.
4. Assisting with the development and implementation of laboratory techniques.
5. Preparation of manuscripts for publication.
6. Assisting with the preparation of grant applications.
7. Support the laboratory management and compliance.
8. Supervising undergraduate and postgraduate student research projects.
9. Training and supervising other laboratory staff as required.
10. Other related duties as required.

Selection Criteria

Essential

1. PhD in Biomedical Science or a relevant area.
2. Demonstrated research expertise in areas relevant to immunopathobiology, wound healing and fibrosis.
3. Demonstrated expertise in cellular and molecular biology approaches.
4. Experience in the use of image analysis platforms such as micro-computed tomography, confocal laser scanning microscopy.
5. Ability to manage and analyse large complex datasets such as proteomics, RNAseq or single cell RNAseq.
6. Demonstrated ability to project manage and meet internal and external deadlines.
7. Demonstrated commitment to upskilling in experimental procedures and analysis.

8. Demonstrated knowledge of laboratory health and safety and OGTR regulatory procedures.
9. Ability to work well with students and staff from differing academic disciplines and cultural backgrounds.
10. Demonstrated high levels of written and oral communication skills in English.

Desirable

1. Animal handling experience.
2. Experience using high performance liquid chromatography.
3. Demonstrated success in supervising undergraduate research projects.

Work Requirements

1. Australian permanent residency or possession of a valid visa with work entitlement in Australia.
2. Ability to work outside of normal office hours when required.

Probationary Review

This position may be subject to a probationary period, during which time the academic staff member is required to meet set probationary objectives and pass a probationary review. Probationary objectives are set following appointment to the position and confirmed at the first Academic Contribution Development Review (ACDR).

General Obligations

While at work, an employee must:

- take reasonable care for their own health and safety and ensure that their acts or omissions do not adversely affect the health and safety of other persons;
- report incidents, injuries and hazards;
- comply with any reasonable instruction that is given by Murdoch University; and
- comply with Murdoch University policies and procedures.

Academic Career Framework

Murdoch University's Academic Career Framework provides a transparent, equitable and consistent approach to probation and promotion as well as outcome and workload expectations. Please refer to the Murdoch University Academic Career Framework for performance criteria and expectations for all academic positions.

Guiding Principles and Values / Code of Ethics and Code of Conduct

Our Values

- Authenticity
- Integrity
- Respect
- Inclusivity
- Openness

Our Principles

- Act with justice, respect and responsible care.
- Be collegiate and respectful of other points of view.

- Protect academic freedom.
- Be agile, flexible and resilient.
- Make decisions at the most appropriate level.
- Be transparent in decision-making and with information.
- Adopt common approaches to common tasks.
- Be careful stewards of our resources.

All staff will comply with the University's Code of Ethics and Code of Conduct and demonstrate a commitment to its Equity, Diversity and Safety principles and the general capabilities of personal effectiveness, working collaboratively and demonstrating a focus on results.

All Staff complete a Development Review Annually. A Commencing Development Review should be completed within 3 months of commencement.

We acknowledge that Murdoch University is situated on the lands of the Whadjuk and Binjareb Noongar people. We pay our respects to their enduring and dynamic culture and the leadership of Noongar elders past and present. The boodjar (country) on which Murdoch University is located has, for thousands of years, been a place of learning. We at Murdoch University are proud to continue this long tradition.