

POSITION DESCRIPTION



Position	Research Officer
Level/Classification	H0505
Reports to	Associate Professor Microbiology
Unit	Medical, Molecular and Forensic Sciences
Directorate	College of Science, Health, Engineering and Education
Positions Supervised	Nil

Position Purpose

This research position is to undertake research in the area of One-Health Antimicrobial Resistance with a specific focus on controlling resistant zoonotic pathogens in Australia, and will primarily work on antimicrobial resistance in zoonotic and commensal bacteria from livestock and wild life.

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 Bidli. 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.

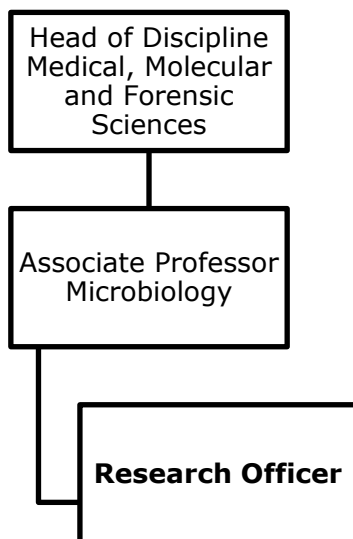
About the Work Area

The College of Science, Health, Engineering and Education (SHEE) was formed in January 2019 from an amalgamation of the Schools of Veterinary and Life Sciences, Health Professions, Psychology and Exercise Science, Engineering and Information Technology, and Education. The combination of these individually strong areas will foster cross-disciplinary academic expertise and innovative multidisciplinary approaches to research and teaching. The College promotes excellent teaching and research facilities and has highly qualified academic and professional staff across the following disciplines:

- Psychology, Counselling, Exercise Science and Chiropractic
- Nursing
- Education
- Engineering and Energy
- Information Technology, Math and Statistics
- Chemistry and Physics
- Agricultural Sciences
- Environmental and Conservation Sciences
- Medical, Molecular and Forensic Sciences
- Veterinary Medicine – Virtual School of Veterinary Medicine

Within Medical, Molecular and Forensic Sciences, the Research Fellow will support research projects led by the Associate Professor Microbiology, including MLA and industry funded projects in *One-Health Antimicrobial Resistance*.

Reporting Relationships



Key Responsibilities/Duties

1. Perform antimicrobial susceptibility testing on bacteria and parasites testing and next generation sequencing.
2. Assist in the development of high throughput robotics protocols for detection and quantification of antimicrobial resistance.
3. Collect and record data, and assist in undertaking preliminary analysis and interpretation of experimental data.
4. Assist in the maintenance of key laboratory equipment including large software packages.
5. Provide technical assistance to PhD students and Post-Doctoral Fellows as required.
6. Perform bacterial identification using MALDI TOFF.
7. Perform DNA extraction and library preparation using pre-existing protocols under supervision
8. Write and manage SOPs for laboratory operations, protocols and assays
9. Assist with animal trials for rodents and large livestock, and other trials as required.
10. Assist with NATA accreditation
11. Assist in the maintenance of key laboratory equipment including large software packages.
12. Assist in maintaining consumables, reagents and equipment and
13. Undertake such other duties as required by your supervisor.

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.

Selection Criteria

Essential

1. A tertiary degree in animal science, veterinary science, biotechnology or closely related field, or an equivalent combination of qualifications, skills and experience.

2. Knowledge and understanding of animal and medical health research.
3. Demonstrated technical laboratory skills, and ability to maintain accurate laboratory records.
4. Ability to effectively analyse information and produce clear, succinct reports and documents.
5. Demonstrated general knowledge of laboratory procedures, including laboratory safety.
6. Well developed interpersonal skills and a demonstrated ability to contribute and work collaboratively in a team environment.

Desirable

1. Previous experience working in a microbiology lab
2. Experience in working with robotics liquid handling equipment and performing antimicrobial susceptibility assays from bacteria isolated from faeces.

Work Requirements

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

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.

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.