

POSITION DESCRIPTION



Position	Research Officer
Level/Classification	HEW0606
Reports to	Laboratory Manager
Unit	Australian National Phenome Centre
Directorate	Health Futures Institute
Positions Supervised	N/A

Position Purpose

The ANPC is a world-class facility led by Murdoch University focused on high-throughput targeted and exploratory metabolic phenotyping. The ANPC is located on Level 3 of the Harry Perkins Institute of Medical Research adjacent to the Fiona Stanley Hospital, Western Australia, and is the largest dedicated facility for metabolic phenotyping in the world. The ANPC houses the largest collection of mass spectrometers (MS) and nuclear magnetic resonance (NMR) instruments dedicated to phenomics research.

The Research Officer is a highly-trained operator with extensive experience in the execution of day-to-day research activities in a PC2 certified laboratory, such as high-throughput sample preparation (biological/ clinical samples), coordination of workflow, robotics and automation, immunoassay and mass spectrometry method development. In particular, this role requires an operator with experience working in an instrument facility that specializes in MS, NMR metabolomics or other high-throughput 'Omics workflows.

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 Bididi. 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:

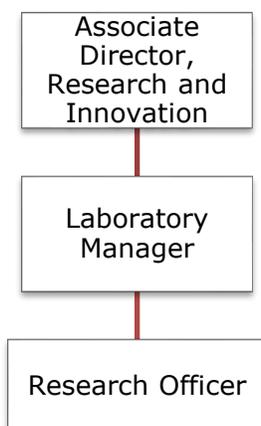
- Sustainability: Be a leading university in education, teaching and translational research in sustainability.
- Equity, Diversity, and Inclusion: Build a welcoming, diverse and inclusive community.
- First Nations: Become the University of first choice for First Nations peoples.

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 ANPC is a dedicated facility established for the purpose of performing “industrial-scale” metabolic phenotyping using an array of state-of-the-art analytical instruments including NMRs and MS. This role will be responsible for the implementation of ANPC methods for the acquisition of multi-modal metabolic data.

Reporting Relationships



Key Responsibilities/Duties

1. Establish routine methodologies for the preparation of samples of biological or clinical origin in a PC2 certified laboratory.
2. Acquisition of biofluid and tissue samples using a range of instrumentation including MS, NMRs, plate readers, robotic liquid handlers, etc.
3. Ensure equipment are operationalized in compliance with ANPC SOPs,
4. To work with other MS and NMR technicians to ensure seamless operation,
5. Perform data quality assurance and statistical analysis as per SOP to assist ANPC Specialists and Bioinformaticians,
6. To prepare analytical reports for collaborators and dissemination via publications and presentations,
7. Participate in research meetings and internal seminars,
8. Maintain an up-to-date knowledge of relevant informatics techniques (literature, conferences, workshops etc).

Selection Criteria

Essential

1. Extensive experience and knowledge (more than 5 years) in the day-to-day operations of a PC2 or analytical laboratory, with a focus on sample preparation of biospecimens of clinical origins,
2. Tertiary degree in a related field,
3. Knowledge and practical experience in the utilization and troubleshooting of critical laboratory equipment including robotic liquid handlers,
4. Experience with large, high-throughput sample workflows,
5. Knowledge of statistical analysis techniques suitable for spectroscopic and/or immunoassay studies.

Desirable

1. Experience in analytical chemistry and metabolic phenotyping,
2. Experience working in an accredited environment (ISO/IEC accreditation),
3. Ability to communicate analytical strategies to researchers in other fields as well as general ability to communicate well, conveying ideas and concepts clearly and effectively in speech and in writing.
4. Willingness to work as part of a team and be open-minded and cooperative,
5. Flexible attitude towards work and ability to work outside normal office hours if required,
6. Discipline and regard for confidentiality, security and personal safety at all times,
7. Good time management skills.

Work Requirements

1. Australian permanent residency or possession of a valid visa with work entitlement in Australia.
2. Current "C" class driver's licence
3. Ability to work outside of normal office hours when required.

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.