

## POSITION DESCRIPTION

<b>Position</b>	Research Officer		
<b>Position Number</b>	3960A01	<b>Level/ Classification:</b>	HEW0606
<b>Reports to</b>	ANPC Senior Operations Manager		
<b>Unit</b>	Australian National Phenome Centre		
<b>Directorate</b>	Health Futures Institute		
<b>Positions Supervised</b>	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 ANPC 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 and metabonomics/ metabolic phenotyping.

This position is funded as part of a recently awarded Medical Research Future Fund Grant entitled “Molecular phenomics approaches to improve understanding of Post-acute COVID-19 Syndrome - a biomarker augmented strategy for risk-based stratification and targeted intervention to improve clinical outcomes”.

The position reports to the ANPC Senior Operations Manager. The Executive Director of the ANPC is Professor Jeremy Nicholson.

### About Murdoch University

Murdoch University helps people discover how to make a difference, through education and research endeavor, and remains one of the most inclusive universities in the country, providing students with quality education and recognised academic standing within an engaging and caring environment. We are a university for all, irrespective of background and social standing with a focus on social equity, self-direction and freedom of thought and belief.

With strong links to government, business and the community, Murdoch University helps people discover how to make a difference. We are a young, innovative and enterprising university with more than 23,000 students and 1,700 staff across Perth, Singapore and Dubai.

We are committed to high quality education, innovative research, and strong community engagement both locally and internationally.

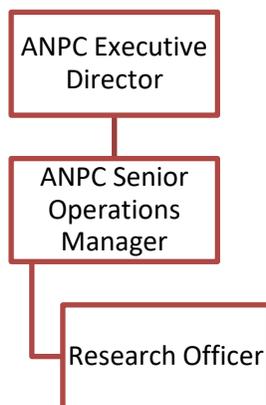
Our [Strategic Plan and Future Horizon 2017-2027](#) outlines an ambitious blueprint for development and growth, with a focus on one purpose: to be a creative force for current and future generations.

We are clear about our two core goals: to educate free thinkers who thrive in society and are sought after by employers; and, to provide life changing solutions for the world's big challenges through our outstanding translational research and innovative practice.

## 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. In particular, the Research Officer will work closely with a dedicated team involved in a Medical Research Future Fund Project entitled "Molecular phenomic approaches to improve understanding of Post-Acute COVID-19 Syndrome".

## Reporting Relationships



## Key Responsibilities / Duties

- Establish routine methodologies for the preparation of samples of biological or clinical origin in a PC2 certified laboratory.
- Acquisition of biofluid and tissue samples using a range of instrumentation including MS, NMRs, plate readers, robotic liquid handlers, etc.
- Ensure equipment are operationalized in compliance with ANPC SOPs,
- To work with other MS and NMR technicians to ensure seamless operation,

- Perform data quality assurance and statistical analysis as per SOP to assist ANPC Specialists and Bioinformaticians,
- To prepare analytical reports for collaborators and dissemination via publications and presentations,
- Participate in research meetings and internal seminars,
- Maintain an up-to-date knowledge of relevant informatics techniques (literature, conferences, workshops etc).

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

The founding principles upon which Murdoch University was established continue unabated today. We continue to be guided by the principles of:

- Equity and Social Justice
- Opportunity
- Sustainability
- Global Responsibility

These Murdoch principles come to life through our culture as evidenced by being an institution where the following are clear:

- Integrity
- Respect and Diversity
- Purpose
- Excellence and Future-focus

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 are to complete a Development Review Annually. Details of the University policies on Development Review can be accessed [here](#). A Commencing Development Review should be completed within 3 months of commencement.

## **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. This role has been identified as requiring mandatory COVID19 Vaccination. You will be required to provide evidence of appropriate vaccination for COVID-19 in accordance with the relevant government mandate (or formally granted medical exemption) to be employed in this position.