

POSITION DESCRIPTION



Position	Research Assistant
Level/Classification	HEW0405
Reports to	Research Associate
Unit	Personalised Medicine Centre
Directorate	Research and Innovation
Positions Supervised	Nil

Position Purpose

The Research Assistant in the Personalised Medicine Centre (PMC) undertakes laboratory work as required for the completion of specific research projects.

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.

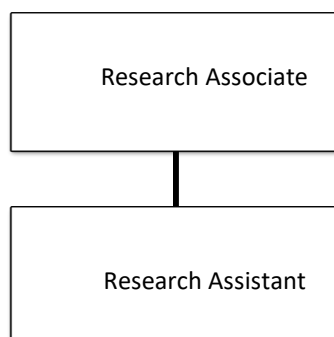
About the Work Area

The Personalised Medicine Centre, formally the Centre for Molecular Medicine and Innovative Therapeutics, is a collaborative research centre between Murdoch University and the Perron Institute, where cutting-edge laboratory research and clinical expertise converge. Our team of researchers and health professionals, drawn from diverse fields, is united in a shared commitment to advancing personalised medicine - the development of innovative treatments tailored to addressing the specific needs of individual patients, needs that are largely determined by a person's unique genetic makeup and lifestyle.

Our research spans a broad spectrum of critical healthcare challenges. Our diverse research teams are advancing work in areas such as genetic therapies, genomics, motor neurone disease, sepsis, immunogenomics and drug hypersensitivity, cognitive health, muscular dystrophy, and neurodegenerative disorders such as Parkinson's disease, myositis, and multiple sclerosis.

To learn more about our Centre's research groups visit
<https://www.murdoch.edu.au/research/hfi/our-centres/personalised-medicine-centre>

Reporting Relationships



Key Responsibilities/Duties

1. Process human-derived samples such as blood, saliva and urine in accordance with established biosafety and ethical guidelines.
2. Conduct experiments using cell culture, flow cytometry, immunoassays (e.g., ELISA/ELISPOT), cell transfection, and molecular assays (e.g., PCR/qPCR).
3. Analyse experimental data using statistical and bioinformatics tools.
4. Restock, organising and maintenance of laboratories.
5. Update databases.
6. Produce data for preparation of research papers for scholarly journals.
7. Maintain a clear and detailed account of experimental procedures and results.
8. Other duties as required.

Selection Criteria

Essential

1. Completion of a relevant degree with honours or an equivalent combination of relevant experience and/or education and training in tissue culture.
2. Sound understanding of immunology, with an emphasis on T cells, and the ability to

- apply this knowledge to experimental design and data interpretation.
3. Proven experience in performing single-cell assays such as 10x Genomics and analysing single-cell datasets.
 4. Demonstrated competence in cell culture techniques, including maintenance and manipulation of primary human cells.
 5. Relevant experience and ability to coordinate data collection and undertake other research studies under supervision.
 6. Demonstrated technical laboratory skills, and ability to maintain clear and accurate laboratory records.
 7. Highly developed organisational and time management skills with a high level of attention to detail.
 8. Ability to effectively analyse information and produce clear, succinct reports and documents.
 9. An ability to ensure information is kept secure and maintain strict confidentiality.
 10. Excellent written and verbal communication skills.

Desirable

1. Experience in a similar position within a university or large organisation.

Work Requirements

1. Comply with the requirements of OHS for the laboratory, including compliance with legislative authorities such as OGTR (Office of the Gene Technology Regulator) and AQIS (Australian Quarantine Inspection Service), during handling, disposal and storage of biologicals and chemicals.
2. Ability to work outside of normal office hours when required.
3. Australian permanent residency or possession of a valid visa with work entitlement in Australia.
4. Comply with systems and processes that are in place for the appropriate storage, handling and disposal of biohazard materials, chemicals and reagents.

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 Career Development Conversation annually to discuss their career aspirations and growth opportunities.

All Staff undergoing a probation period are required to set probationary objectives with their leader 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.