

POSITION DESCRIPTION



Position	Centre Director, Australian National Phenome Centre
Level/Classification	Academic Level D (Associate Professor) or Level E (Professor)
Reports to	Deputy Vice Chancellor, Research and Innovation
Unit	Australian National Phenome Centre (ANPC)
Directorate	Research and Innovation
Positions Supervised	ANPC Team

Position Purpose

Murdoch University is seeking expressions of interest from Associate Professors, recently appointed Professors and equivalent Research Leaders seeking to broaden their impact through the leadership of a nationally significant research capability, the Australian National Phenome Centre (ANPC).

The Centre Director will provide scientific vision, strategic leadership and international profile for the ANPC. As Director, you will lead one of Australia's most advanced metabolic phenotyping platforms and harness its unique capabilities to advance precision health, translational bioscience and population-scale discovery.

You will lead a highly skilled team of instrumental and data scientists while advancing your own research agenda and enabling researchers across disciplines to access and benefit from the Centre's expertise and infrastructure. The successful candidate be part of a highly supportive research ecosystem characterised by strong institutional commitment, world-class infrastructure and a clear ambition to position Murdoch University as a leading driver of research translation, innovation and economic impact.

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

Murdoch University's Australian National Phenome Centre (ANPC) is a national Core Facility for high-resolution metabolic phenotyping and translational bioscience. Based within the Harry Perkins Institute of Medical Research in Perth's Murdoch Health Precinct, adjacent to Fiona Stanley Hospital, the Centre integrates advanced Nuclear Magnetic Resonance (NMR), mass spectrometry, automation and bioinformatics platforms to support industrial-scale biological analysis and population-scale phenotyping at the interface of research, healthcare and industry.

The ANPC represents one of Western Australia's most significant investments in precision bioanalytical research infrastructure and was established to bridge discovery science and real-world impact. The Facility is currently working towards ISO 9001 and NATA ISO/IEC 17025 certification.

Research and Translation Application:

The ANPC supports research across a broad range of disciplines, including:

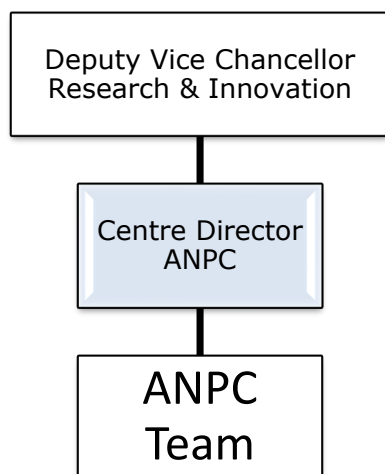
- Precision medicine and human health
- Population health and epidemiology
- Chronic disease prevention
- Nutrition and metabolic health
- Agriculture and food systems
- Environmental and conservation sciences
- Multi-omic and systems biology research

Facility Infrastructure

- 7 × 600 MHz NMR spectrometers
- 1 × 800 MHz ultra-high-field NMR spectrometer
- 1 × 400 MHz NMR spectrometer
- 2 × 80 MHz Benchtop NMR spectrometers
- 1 × 7 Tesla Magnetic Resonance Mass Spectrometer
- 27 mass spectrometry platforms spanning timsTOF, QTOFs, QTRAPs and TQ modalities
- Automated sample and liquid handling systems
- Bioinformatics and digital infrastructure
- Purpose-built facilities designed for continuous operation and high-throughput.

For more information about the Australian National Phenome Centre (ANPC) please refer to the [ANPC brochure](#).

Reporting Relationships



Key Responsibilities/Duties

1. Scientific Vision and Research Leadership

- Develop and execute a compelling, internationally competitive research vision that leverages the ANPC's industrialised phenomic capabilities to address major health and societal challenges.
- Attract significant national and international competitive funding including NHMRC, MRFF, ARC and State-funded programs such as the FHRI Fund.
- Develop large-scale cohort, clinical and translational research programs that position Western Australia as a globally recognised hub for precision bioscience.
- Advance the Centre's research agenda in metabolic phenotyping, multi-omics and systems biology, establishing globally connected programs with enduring impact.
- Maintain a high-quality, growing publication record and active engagement with the international phenomics and precision health research community.

2. Strategic Leadership and Centre Management

- Provide executive leadership of the ANPC, including oversight of day-to-day operations, quality systems, budgets, staffing and performance.
- Ensure the Centre meets and maintains ISO 9001 governance requirements and progresses toward NATA ISO/IEC 17025 accreditation.
- Develop and implement a strategic plan for the ANPC that aligns with Murdoch University's research strategy and the broader Western Australian health and innovation agenda.
- Manage Centre resources effectively to support operational continuity and growth.
- Foster a high-performance, inclusive and collaborative team culture that values scientific excellence, integrity and wellbeing.

3. Partnership Development and External Engagement

- Build and sustain productive partnerships with industry, government, healthcare organisations, research institutions and community across Australia and internationally.
- Develop and drive commercialisation, translation and innovation activities arising from Centre capabilities and research outputs.
- Engage with Western Australia's globally significant cohort studies, life sciences sector, environmental and agricultural innovation agenda to create cross-sector research programs.
- Represent the ANPC at national and international forums, conferences and policy advisory groups, raising the profile of Murdoch University's precision bioscience capability.
- Actively leverage funding opportunities arising from the Future Health Research and Innovation Fund (FHRI Fund), its Distinguished Fellows Program, and other State and Commonwealth funding mechanisms.

4. Mentorship and Capacity Building

- Lead, mentor and develop a diverse team of instrument and data scientists, postdoctoral researchers and HDR students.
- Build local research capacity by creating clear pathways for the development of emerging researchers and future leaders in phenomics and translational bioscience.
- Enable researchers from across disciplines, institutions and sectors to access and benefit from the ANPC's expertise and infrastructure.
- Contribute to the broader teaching and research training mission of Murdoch University as appropriate to the academic appointment.

5. Translation and Impact

- Drive the translation of research findings into clinical, public health, commercial and societal outcomes.
- Shape policy, practice and future directions in precision health through sustained engagement with government, industry and clinical partners.
- Leverage the Centre's co-location with major hospital, clinical and research precincts to accelerate discovery and translation.
- Build the ANPC's reputation as a catalyst for healthcare transformation, attracting international talent and investment to Western Australia.

Selection Criteria

- **PHD in relatable or specific fields, eg,**
 - Heart Health
 - Exposome Biology
 - Precision Health
 - Preventive Health
 - Digital Health
 - Computational Biology
 - Population and Cohort Sciences
 - Metabolomics and Systems Biology
 - Human Health and Disease Mechanisms
 - Personalised Nutrition and Lifestyle Medicine
- A strong and growing record of research achievement and momentum, with evidence of national and international recognition in metabolic phenotyping, metabolomics, phenomics, translational bioscience or a closely related field

- Experience leading large multidisciplinary research programs across diverse teams and disciplines.
- A compelling research vision that will leverage the ANPC's industrialised phenomic capabilities to address major health and societal challenges.
- Evidence of translating research into clinical, public health, commercial or societal outcomes.
- Demonstrated ability to shape policy, practice and the future direction of precision health and phenomics through research translation and external engagement.

Work Requirements

1. Australian permanent residency or possession of a valid visa with work entitlement in Australia.
2. The occupant of this position will be required to undertake a criminal record check in accordance with the University's Employee Background Checks Procedure. (Please check the Employee Background Checks Procedure if the role requires this).
3. Any role specific requirements e.g. work between two campuses etc.
4. Occasional overseas/interstate travel/travel within the state may be 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.

ACADEMIC ROLE DUTY STATEMENT

Role-Specific Information



(To be read in conjunction with the Position Description)

About this document

This document provides additional information specific to this role, including details about the work area, expectations, and selection criteria.

It is intended to complement the Academic Position Description (PD), which outlines the broader responsibilities and expectations of the role in line with Murdoch University's Academic Career Expectations (ACE) Framework.

To avoid duplication, information already included in the PD is not repeated here.

Important information for applicants

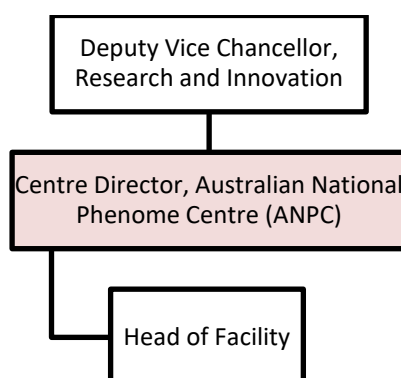
This document focuses on what is specific to this role, School, or discipline. It should be read alongside the Position Description, which forms the primary reference for the role. The scope and focus of the role may evolve over time, in line with School and discipline priorities, Workload allocation and strategic and operational needs of the University.

Position	Centre Director, Australian National Phenome Centre (ANPC)
Reports to	Deputy Vice Chancellor, Research and Innovation
Division	Health Futures Institute
College	Research and Innovation

About The Work Area

The ANPC is a dedicated Core Facility established for the purpose of performing “industrial-scale” phenotyping using an array of state-of-the-art analytical instruments including high-field Nuclear Magnetic Resonance and multiple Mass Spectrometer modalities, as well as computational capabilities that will enable research and translation through a systems approach. The ANPC is located at the Harry Perkins Institute of Medical Research (South) and is a key platform within the Murdoch University Health Futures Institute.

Reporting Relationships



Role-Specific Focus

The Centre Director, Australian National Phenome Centre (ANPC), provides strategic, scientific and operational leadership for one of Australia's most advanced metabolic phenotyping and translational bioscience research facilities. The role is responsible for setting the Centre's vision and direction, maximising the impact of its world-class infrastructure, and positioning the ANPC as a globally recognised leader in precision health, phenomics and translational research.

The Centre Director will lead a multidisciplinary team of scientists and technical specialists, foster a culture of innovation and collaboration, and drive the development of internationally competitive research programs.

The role will build strategic partnerships across academia, healthcare, government and industry, secure major research investment, and support the translation of research outcomes into clinical, public health, commercial and societal impact.

Selection Criteria

Specific Knowledge and Competencies

- Internationally recognised expertise in one or more relevant disciplines, including precision health, metabolomics, phenomics, systems biology, population health, heart health, exposome science, digital health, computational biology, personalised nutrition, or related biomedical sciences.
- Demonstrated expertise in the application of advanced metabolic phenotyping methodologies and technologies, including Nuclear Magnetic Resonance (NMR), Mass Spectrometry (MS), multi-omics approaches, computational biology and/or artificial intelligence-enabled research.
- Proven capability to design, lead and deliver large-scale translational, clinical, cohort, epidemiological or multidisciplinary research programs that utilise advanced biological, health or population datasets.
- Demonstrated success in securing major competitive research funding and developing internationally competitive research programs within a relevant area of health, medical, biological or translational research.
- A strong record of translating research outcomes into clinical, public health, policy, industry, innovation or commercial applications, with evidence of national and/or international research impact.

Specific Qualifications

- A doctoral qualification (PhD or equivalent) in a relevant discipline such as biomedical science, health and medical research, metabolomics, systems biology, population health, bioinformatics, precision health or a closely related field.

Specific Work Requirements

- Capacity to undertake domestic and international travel to support strategic partnerships, collaborative research initiatives, funding opportunities, industry engagement, and represent the Australian National Phenome Centre at conferences, forums and stakeholder events.
- Ability to work across multiple locations, including Murdoch University campuses, the Australian National Phenome Centre, clinical and research precincts, partner organisations and other sites throughout Western Australia as required.
- Demonstrated willingness to engage with a broad range of stakeholders, including industry partners, government agencies, healthcare organisations, research institutes and community groups to advance research, translation and innovation outcomes.
- Capacity to participate in laboratory, field, clinical, cohort or research environments as required to support the development, oversight and delivery of research programs and strategic initiatives.