

STANDARD TEACHING AND RESEARCH POSITION DESCRIPTION



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| Position | Research Fellow |
| Level/ Classification | ACLEA |
| Reports to | Adrian Gleiss |
| Division | School of Environmental and Conservation Science |
| College | College of Environmental and Life Sciences |

Position Purpose

A Research Fellow is expected to carry out activities to develop scholarly research and professional expertise relevant to the profession or discipline. This position contributes to the research efforts of the school through the undertaking of fieldwork, laboratory work, data analysis and production of peer-reviewed publications and technical reports, as well as supporting postgraduate supervision.

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.

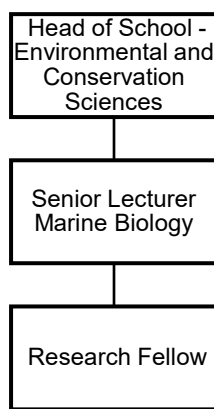
Murdoch is also committed to building engagement with our local community, State, nation, and global society with a track-record in creating strong partnerships with business, government and industry.

About the Work Area

The School of Environmental and Conservation Sciences (ECS) is a multi-disciplinary school based within the College of Environmental and Life Sciences. ECS offers three undergraduate majors in Conservation & Wildlife Biology, Environmental Science & Management, and Marine Biology, as well as Graduate

Certificate in Environmental Assessment & Management, Graduate Diploma and Master in Environmental Science. We pride ourselves in offering strong experiential learning in all our offerings and all our offerings are achieving high student satisfaction ratings. Murdoch is well respected for translational, impactful research. Research in ECS is diverse and multi-disciplinary with an applied focus on solving environmental, policy, and conservation challenges. We deliver research excellence through collaboration with government, industry, NGOs and Traditional Owners. Our school values and enjoys a positive research culture for emerging and established research staff and a large group of higher-degree students.

Reporting Relationships



Key Responsibilities / Duties

1. Conduct Innovative Research on the locomotion and biomechanics of cephalopods.
2. Lead and collaborate on original research projects addressing pressing issues in marine ecosystems and marine biodiversity.
3. Fieldwork and Data Collection. Design and carry out field studies both locally and internationally on cephalopod energetics and biomechanics.
4. Conduct experiments under laboratory conditions to advance our understanding of cephalopod locomotion and energetics.
5. Data Analysis and Modelling. Process and interpret complex environmental and biological datasets using advanced statistical, modelling, or GIS techniques.
6. Publication and Dissemination. Prepare high-quality research articles, reports, and presentations for peer-reviewed journals, conferences, stakeholder meetings, and public outreach.
7. Grant Writing and Project Development. Secure competitive funding through proposal writing and play a key role in expanding the research program's impact.
8. Collaboration and Networking. Foster partnerships with universities, government agencies, NGOs, Indigenous communities, and international collaborators to enhance research outcomes and knowledge exchange.
9. Mentoring and Supervision. Guide postgraduate students, junior researchers, and interns in laboratory methods, field techniques, and academic development.
10. Contribution to Strategic Goals. Align research initiatives with institutional priorities, contribute to departmental planning, and support marine conservation and sustainability objectives.

Selection Criteria

Essential

1. A PhD in marine science or a closely related area
2. Demonstrated experience in the use of biollogging data as it pertains to the study of locomotion of cephalopods under natural conditions
3. Demonstrated experience in the study of squid locomotion and energetics using flumes and respirometers
4. Experience in computer programming languages including MatLab for analysis of biollogging data, ArcGIS for mapping and visualisations and Autodesk Fusion 360 for 3-dimensional design and modelling.
5. Demonstrated ability to work under broad direction only, exercise initiative in undertaking responsibilities and work effectively as a team member.
6. Well-developed interpersonal skills, past success in working effectively as a member of an interdisciplinary, collegial team.
7. Demonstrated ability to engage in high quality independent research.
8. Well-developed interpersonal skills and the ability to work effectively as a member of an interdisciplinary and collegial team
9. Demonstrated high levels of written and oral communication skills in English.

Work Requirements

1. A willingness and ability to travel internationally on a regular basis.
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.

Probationary Review

This position may be subject to a probationary period, during which time the academic staff member is required to meet set probationary objectives and pass a probationary review. Probationary objectives are set following appointment to the position and confirmed at the first Academic Contribution Development Conversation (ACDC).

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.

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.

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 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.