

STANDARD TEACHING AND RESEARCH POSITION DESCRIPTION



Position	Lecturer Physical Oceanography
Level/ Classification	ACLEB
Reports to	Head of School – Environment and Conservation Sciences
Division	School of Environment and Conservation Sciences
College	College of Environmental and Life Sciences

Position Purpose

A Lecturer Level B is expected to develop scholarly research outputs and professional activities relevant to the discipline. This position contributes to the teaching effort of the School through the preparation and delivery of lectures, tutorials, other types of teaching activities, and supervision of Honours and postgraduate students and is expected to perform a range of substantial administrative and service functions within the College and across the University.

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.

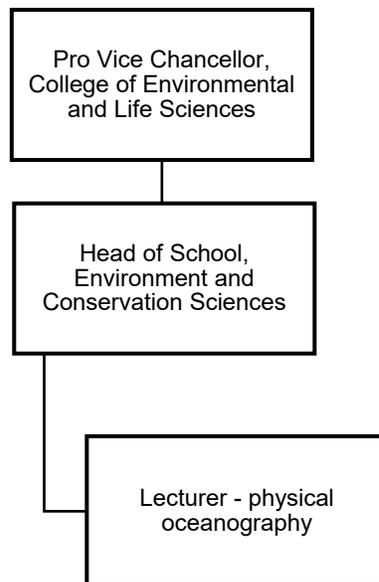
Murdoch is also committed to building engagement with our local community, State, nation, and global society with a track-record in creating strong partnerships with business, government and industry.

About the Work Area

The 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. Deliver high-quality lectures, practicals, and tutorials in oceanography and marine pollution units within the Marine Biology degree.
2. Explain the mathematical and physical foundations of marine environments in a manner accessible to students from biological science backgrounds.
3. Develop, review, and update curriculum materials that integrate physical oceanography with marine biology, including case studies and current research.
4. Supervise undergraduate and postgraduate student projects and provide academic mentorship.
5. Conduct independent and collaborative research in physical oceanography, with interdisciplinary connections to marine biology, marine pollution, and related fields.
6. Publish research findings in reputable, peer-reviewed journals and present at national and international conferences.
7. Seek external funding through competitive grants and industry partnerships to support research activities.
8. Contribute to the broader activities of the School, including outreach, engagement, and administrative responsibilities.
9. Participate in professional development and collaborate with colleagues within the University and with external partners. Seek external funding through competitive grants and industry partnerships to support research activities.
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Selection Criteria

Essential

1. PhD in Physical Oceanography, Marine Science, Environmental Physics, or a closely related discipline.
2. Demonstrated experience in teaching physical oceanography and marine pollution, especially within a marine biology context.
3. Ability to clearly communicate complex mathematical and physical concepts to students with diverse backgrounds, particularly those in biological sciences.
4. Evidence of a strong research track record, including peer-reviewed publications and successful grant applications.
5. Experience supervising student research projects and mentoring students.
6. Excellent interpersonal and organisational skills, with a commitment to collegiality and teamwork.
7. Demonstrated commitment to equity, diversity, and inclusion.
8. Design and deliver units covering oceanographic processes, marine pollution, and their impact on marine ecosystems.
9. Teach core mathematical and physical principles (e.g., fluid dynamics, thermodynamics, chemical oceanography) with direct relevance to marine biology.
10. Facilitate fieldwork and laboratory sessions that provide hands-on experience in measuring and analysing marine environments.
11. Assess student learning through a variety of formats, including exams, reports, and presentations
12. Undertake original research in physical oceanography, with outputs that advance knowledge in marine biology and marine pollution.
13. Collaborate with colleagues in biological and environmental sciences to develop interdisciplinary projects.
14. Supervise honours and postgraduate research students.

Desirable

1. Experience in interdisciplinary research linking physical oceanography and marine biology.
2. Familiarity with contemporary issues in marine pollution, including emerging contaminants and environmental management strategies.
3. Experience in curriculum development and innovative teaching practices, including digital and field-based learning.
4. Ability to engage with local, national, and international partners in academia, industry, and government.

Work Requirements

1. Occasional overseas/interstate travel/travel within the state may be required.
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.

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.