

POSITION DESCRIPTION

SENIOR LECTURER - LEVEL C TEACHING AND RESEARCH



A **Senior Lecturer (Level C)** academic will make a significant contribution to the discipline at the national level. In research and/or scholarship and/or teaching they will make original contributions, which expand knowledge or practice in their discipline.

A Level C academic will normally make a significant contribution to research and/or scholarship and/or teaching and administration activities of an organisational unit or an interdisciplinary area at undergraduate, honours and postgraduate level. They will normally play a major role or provide a significant degree of leadership in scholarly, research and/or professional activities relevant to the profession, discipline and/or community and may be required to perform the full academic responsibilities of and related administration for the coordination of a large award program or a number of smaller award programs of the institution.

Expectations of the position are guided by the University's Building a Brighter Future, Together: *Ngala Kwop Biddi* strategy and the Academic Career Expectations (ACE) Framework. A Senior Lecturer will advance the University's strategic plan, including our strategic themes of Sustainability, Equity, Diversity and Inclusion, and First Nations, and will uphold the University's expectations of citizenship.

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.

Our campuses in Western Australia are located on the lands of the Whadjuk and Binjareb Noongar people. We respect their enduring and dynamic culture, and the leadership of past and present Noongar elders. The *boodjar* (country) on which Murdoch is located has, for thousands of years, been a place of learning, and we are proud to continue this long tradition.

Founded as Western Australia's second university in 1974, today, Murdoch has more than 21,000 students and 2,000 employees across campuses in Perth, Singapore and Dubai. With more than 120,000 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 affirms our shared purpose to change lives and society for the better through accessible education and research.

Murdoch's strategy is underpinned by a clear ambition to be recognised as a university that leads with purpose and academic excellence. We are committed to delivering high-quality, research-informed education and impactful research that advances knowledge, addresses real-world challenges and creates meaningful benefit for communities. We aspire to be a global leader in sustainability through our education, research and operations, nurturing mindsets and solutions that contribute to a more sustainable and socially responsible world. We are equally committed to fostering a welcoming, diverse and culturally safe community where equity and inclusion are actively practised and where all members of our community can thrive and realise their potential. Central to this ambition is our commitment to First Nations peoples — to become a university of choice that respects, embeds and elevates Indigenous knowledges, strengthens cultural capability, and contributes meaningfully to reconciliation and shared futures.

Murdoch is also committed to strong engagement with our local community, our State, our Nation, and the global society, and has a proud track record of creating meaningful partnerships with business, government, and industry.

Murdoch's culture is grounded in a genuine commitment to acting with integrity and respect, creating an environment where people feel safe to be themselves, contribute openly, and engage with curiosity and care. How we work together matters as much as what we achieve, and this is reflected in a collegial and thoughtful approach to leadership, collaboration and decision-making. We value diverse perspectives, uphold academic freedom, and seek to operate with transparency and trust, while remaining adaptable and responsible in how we use our resources and deliver on our shared purpose.

Position Duties

As a Senior Lecturer, you are expected to contribute significantly to your School (or business area), University and the broader discipline or profession, and will achieve a national reputation.

The scope, depth and emphasis of your responsibilities may vary based on your workload allocation and the priorities set with your Head of School (or equivalent).

Education

Making original contributions to teaching that expand knowledge and practice in your discipline, you may be expected to:

1. **Expertise and knowledge:** demonstrate specialised content knowledge in your discipline, engage with current research, scholarship and/or professional practice, in order to deliver expert, research-led teaching at the undergraduate and postgraduate levels.
2. **Unit delivery:** design, deliver and evaluate undergraduate and postgraduate units across face-to-face, online and blended modes. Lead others and collaborate within teaching teams as required. Ensure that your units meet School and University expectations.
3. **Learning design:** develop and maintain high-quality learning resources, assessments, and rubrics that scaffold student success, engage appropriately with emerging technologies, and reflect current standards of the discipline and profession(s).

4. **Assessment:** coordinate effective moderation activities, provide timely and constructive feedback to students, and return marks according to established deadlines.
5. **Curriculum review and standards:** make a significant contribution to curriculum design and renewal within a discipline or program to ensure compliance with University policy and TEQSA standards. Contribute significantly to strategies that ensure curriculum meets the expectations of students, employers and the profession(s).
6. **Student support:** provide expert advice and support to students to foster their learning, course progression, retention and wellbeing. Design and implement strategies to support student retention within your unit(s). Contribute to retention strategies across programs and within the School.
7. **Learning and teaching practice:** engage in the continuous improvement of your learning and teaching practice, ensuring currency and innovation to meet the current and future expectations of the discipline and profession(s).

Research

Making a significant contribution to research within your discipline, you will demonstrate leadership and have an established reputation at the national level. you may be expected to:

8. **Research activity:** undertake impactful and recognised research that contributes significantly to new knowledge or creative endeavour. Share research findings through high-quality, impactful publications or applications suited to your discipline. Demonstrate sound ethical practice and data management.
9. **Research service:** play a leading role in research service within your discipline, such as leading conferences and networks, contributing to academic journals in roles such as editor, editorial board member or peer reviewer, and providing expert advice to media, government, industry and others.
10. **Research Funding:** attract external funding and lead research partnerships with government, industry, community and others that lead to an exchange of knowledge and resources.
11. **Research Supervision:** lead supervision panels for Honours and/or postgraduate research from proposal to examination, ensuring that student work meets the University's ethics and integrity standards and is completed in a timely fashion. Examine Honours and postgraduate theses.
12. **Research leadership:** contribute significantly to a culture of research excellence in the School, helping to steer, support, nurture and coordinate ethical and quality research in the discipline. Engage in the mentoring of others.

Service, Leadership and Engagement

Make a significant contribution to the University and your discipline or profession, as follows:

13. **Administration and coordination:** expertly undertake administrative activities

within your teaching, research and service to the School. This may include the coordination of a large program (or programs) and other initiatives.

14. **Service and leadership within the University:** make a significant contribution to School and University activities such as committees, working groups and events, playing a leadership role within the University's community and its governance processes.
15. **Engagement with the discipline or profession:** play a leading role within your discipline and/or profession, building your reputation inside the University and within your discipline at a national level.
16. **External engagement:** contribute significantly to activities that strengthen collaborations and enhance the visibility, reputation and impact of the discipline, School or University.

University Compliance and Professional Obligations:

- **University expectations:** uphold the University's expectations as set out by regulation, policy, procedure and codes of conduct.
- **Citizenship:** demonstrate citizenship as a core dimension of the role by upholding the University's core values and guiding principles.
- **External obligations:** comply with all relevant legislative, regulatory and professional requirements applicable to your role and employment, including the Higher Education Standards Framework (HESF) and Tertiary Education Quality and Standards Agency (TEQSA) requirements.
- **Health, Safety and Wellbeing:** meet obligations relating to Work Health and Safety and wellbeing, including taking reasonable care for personal safety and that of others, reporting hazards, incidents and injuries, and following reasonable safety instructions and requirements.
- **Mandatory Training:** maintain completion of required mandatory training and professional compliance activities relevant to the role and employment.
- **Career development:** participate in University processes that support your ongoing professional development, including engagement in the Annual Career Development Conversation (ACDC) and upholding expectations of the Leadership Capability Framework.
- **Other duties:** undertake other duties that are consistent with the responsibilities, skills and classification of this role as reasonably directed.

Workload Allocation

The scope of academic work will be in accordance with the Academic Workload provided for in the current Murdoch University Enterprise Agreement.

Qualifications

- A tertiary qualification of at least four years in the relevant field, or equivalent professional experience recognised by the University.
- A relevant doctoral qualification (PhD or equivalent) in the discipline, or

equivalent professional experience as recognised by the University.

- Maintain your professional registration or accreditation, where relevant to your discipline or profession.

Work Requirements

- Australian permanent residency or possession of a valid visa with work entitlement in Australia, or ability to obtain prior to commencement.
- A willingness and ability to travel nationally and/or internationally as required.
- Ability to work outside of normal office hours when required.

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	Senior Lecturer (Materials Science)
Reports to	Head of School
Division	School of Mathematics, Statistics, Chemistry and Physics
College	College of Science, Technology, Engineering and Mathematics

About The Work Area

The School of Mathematics, Statistics, Chemistry and Physics comprises 26 academic staff and is expected to grow. It delivers its own undergraduate programs (BSc Mathematical Sciences and BSc Physical Sciences) and a Graduate Diploma in Extractive Metallurgy.

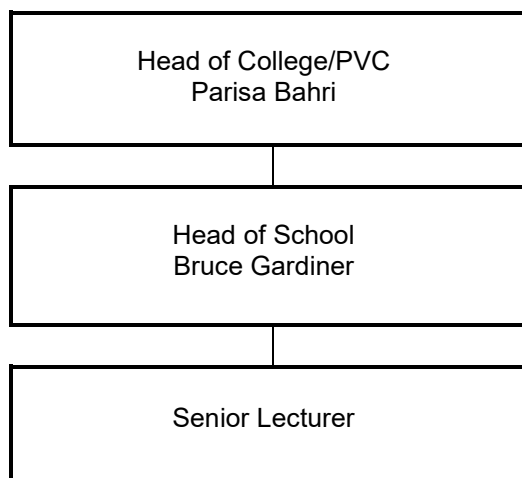
The School also plays a key role in service teaching, providing Chemistry, Physics, and Mathematical Science units across the University. Its undergraduate majors (Chemistry, Physics, and Mathematics and Statistics) are also taken as second majors by students from other degrees. In addition, the school contributes significantly to the Data Analytics, Forensic Chemistry, and Secondary Education majors.

Research in the School tends to be applied and interdisciplinary. All academics across the school have active research projects both within and outside their subdisciplines. Research projects span, for example, key industries of mining and mineral processing, agriculture and food, human and animal health, environmental and sustainably. Our academics are also engaged with their respective National Societies.

More information about the school can be found here:

<https://www.murdoch.edu.au/schools/mathematics-statistics-chemistry-and-physics>

Reporting Relationships



Role-Specific Focus

This role includes a particular focus on:

- The appointee will contribute to the teaching, research, and service activities in the physical sciences within the School of Mathematics, Statistics, Chemistry & Physics (MSCP). The position is intended to strengthen Murdoch University's capability at the interface between physics, chemistry and its applications, such as material science and extractive metallurgy.
- The successful candidate will deliver high-quality teaching at undergraduate and postgraduate levels in at least one of our physical science majors or courses. However, the candidate should have the ability to deliver first year chemistry and calculus-based physics at the first-year level. The appointee will contribute to the development, coordination, and continuous improvement of units and programs, and collaborative teaching with other schools.
- The appointee will develop and maintain a strong research program in the physical sciences. Within MSCP we have a strong commitment to applied, interdisciplinary approach to our teaching and research. The ability to work with colleagues across traditional discipline boundaries will be highly regarded.
- The appointee will contribute to teaching, supervision, curriculum development, academic leadership, and broader service activities, supporting the University's mission and engagement with industry and professional communities.

Selection Criteria

Specific Knowledge and Competencies

- Evidence of a national independent research profile in the physical sciences. Evidence may include high-quality research outputs, competitive funding, HDR supervision, collaborations, invitations, and other indicators of research excellence and esteem.
- Demonstrated ability to deliver engaging undergraduate and/or postgraduate units in the physical sciences, with the capacity to contribute effectively to foundational teaching in both chemistry and calculus-based physics, including first-year service teaching and support for students from diverse disciplinary backgrounds.

- Experience in development of contemporary curricula in the physical sciences. This may include engaging with academics from outside the discipline, to ensure their majors are well served by our units.
- Outstanding communication and interpersonal skills, including the ability to explain scientific concepts and convey why it is important to diverse audiences, including future students and multidisciplinary teams.

Specific Qualifications

- A PhD in Physics or Chemistry (or a closely related field with strong physics and/or chemistry content e.g. extractive metallurgy, materials science).