

Position Title	Lecturer - Research and Innovation Manager
Classification	Level B
School/Division	School of Engineering
Centre/Section	TechWorks
Supervisor Title	Head of Department
Supervisor Position Number	TBA
Position Number	NEW

Your work area

The University of Western Australia is looking to appoint a Level B academic in the area of Materials Engineering to help drive the success of TechWorks. TechWorks is an exciting new collaboration between Woodside and The University of Western Australia. TechWorks consists of a professional space and designated laboratory within UWA's Engineering Civil and Mechanical Building that is designed to promote innovation and engagement through research, prototyping and testing activities that will drive improved production, maintenance and operations outcomes.

The School of Engineering has an established and dedicated team of teaching and research academics providing undergraduate and post-graduate programmes across multiple engineering disciplines, including biomedical, civil, environmental, mining, chemical, mechanical, electrical and electronic and automation and robotics. Research in the School also spans a wide range of engineering disciplines, with groups often comprising multi- and trans-disciplinary researchers who work with industry to produce outcomes with impact.

The School of Engineering is driving an initiative to improve diversity, equity and inclusion amongst its academic staff; increased gender diversity amongst staff and students is a key priority for the School, **therefore, women are particularly encouraged to apply.**

Reporting structure

Reports to: Head of Department

Direct reports: Techworks research staff

Your role

As the appointee you will collaborate with other researchers to plan and develop research undertaken in TechWorks. You will identify, plan, develop, initiate and test research designs. You will collect, analyse and report on data and present research findings.

The TechWorks innovation collaboration model with Woodside and UWA is one of openness, agility and continuous interaction. Working in partnership, the two institutions look to drive forward meaningful research with real-world impact. The Research & Innovation Manager will act as one of the primary conduits between Woodside personnel and UWA academics, bridging the language gap between academia and industry.

Working closely with the TechWorks team, the Research & Innovation Manager is expected to manage and support the delivery of the portfolio of research and development projects, ensuring alignment between Woodside goals and university priorities. The role will also involve the identification and development of opportunities for new R&I projects that fit within the Woodside Technology strategy as well as UWA's research focus. While this position will be required to work across all the activities in Techworks, there is a particular focus on supporting the metal 3D printing program.

As part of this role, you will be expected to teach 1 unit per year, plus supervise final year project students. A small amount of service to the University is also expected.

The Research & Innovation Manager will actively contribute to the development of the long-term vision and strategy for TechWorks including the 3D Additive Manufacturing program and contribute to high-quality research and academic publication outcomes.

The Research & Innovation Manager will ensure the work conducted at TechWorks has external impact with Woodside and beyond and will be paramount in the implementation of the technology into real world applications through commercial and non-commercial routes.

Your key responsibilities

In collaboration with the TechWorks team, contribute to the development of the long-term vision and strategy for TechWorks, and lead the implementation of this vision

Act as a liaison between Woodside personnel and UWA academics to ensure strong collaborative relationships are developed, and communication is transparent and fluid, fostering a culture of collaboration within TechWorks that is open and inclusive

With a particular focus on metal 3D printing, identify and develop new project opportunities across UWA, Woodside and potential external partners to drive TechWorks' success including, where appropriate, the promotion of research links with external bodies

Manage the portfolio of research and development projects to ensure alignment between Woodside goals and university outcomes including academic impact and implementation including, where appropriate, leadership of research teams or management of projects

Assist in the administrative operations of the TechWorks collaboration, including governance, committee support, project support, research performance, finance, human resource management, contract management, negotiation, IT and compliance, and ensure that TechWorks procedures and processes operate within the compliance parameters set by the University, the partnership and any funding body.

Undertake teaching at either an undergraduate or post-graduate level

Supervision and academic development of students in final year projects or speciality training programs as well as the supervision and training of research support staff involved in TechWorks research

Contribution to the preparation or, where appropriate, individual preparation of research proposal submissions to external funding bodies

Attendance at departmental or School meetings and meetings associated with TechWorks research projects, and involvement in professional activities including attendance at conferences and seminars in aligned fields of expertise

Other duties as directed from time to time

Your specific work capabilities (selection criteria)

PhD or an equivalent in relevant field (e.g materials engineering, physical metallurgy, corrosion)

Knowledge of additive manufacturing of metals, especially with respect to powder bed fusion.

Good understanding to the materials science of metals including microstructural and mechanical property characterisation.

High level interpersonal skills and proven ability to establish strong collaborative working relationships with colleagues and students and to develop and maintain professional links within TechWorks

Proven ability to teach at an under-graduate and/or post-graduate level

Proven track record of engagement with research and development divisions of industry partners and delivery of high quality research outputs.

Proven ability, commitment and passion for engaging in academic research with a focus on the needs of industry.

Ability to take on leadership responsibilities where appropriate

Experience in supervising and working with honours, postgraduate research projects and/or the co-supervision of PhD students

Strong written and oral communication skills including the ability to prepare and communicate the aims and outputs of research projects in a range of formats

Ability to plan, manage the use of research funds, organise and achieve work targets, sometimes in demanding circumstances and work harmoniously and constructively with academic colleagues, University staff and industry partners

Special requirements (selection criteria)

There are no special requirements

Compliance

Ensure you are aware of and comply with legislation and University policy relevant to the duties undertaken, including:

The University's Code of Conduct hr.uwa.edu.au/policies/policies/conduct/code/conduct

Inclusion and Diversity web.uwa.edu.au/inclusion-diversity

Safety, health and wellbeing safety.uwa.edu.au/