RMIT UNIVERSITY

Position Description – Research Fellow

Position Details

Position Title: Research Fellow

College/Portfolio: STEM College   **School/Group:** School of Science

Campus Location: Primarily based at city campus, and the potential to work across other RMIT campuses as required.

Classification: Academic Level B   **Time Fraction:** 1.0 FTE (time fraction negotiable)

Employment Type: Fixed Term – 2 years

Fixed Term Reason: Specific Task or Project

Reporting Line: Professor Jared Cole

No. of Direct reports: N/A

RMIT University

RMIT is a global university of technology, design and enterprise, committed to creating transformative experiences for students and making a meaningful impact through research, innovation, and engagement. For more information on RMIT University follow the links below.

https://www.rmit.edu.au/about
https://www.universitiesaustralia.edu.au/university/rmit-university/
https://www.rmit.edu.au/about/facts-figures

Our campuses in Melbourne (City, Brunswick, Bundoora, and Point Cook) are complemented by international campuses in Vietnam and a centre in Barcelona, Spain. We proudly acknowledge the Woi Wurrung and Boon Wurrung peoples of the eastern Kulin Nation on whose unceded lands our campuses are located.

We are deeply committed to reconciliation and Indigenous self-determination, embedding these values throughout our policies, culture and structures.

https://www.rmit.edu.au/about/our-locations-and-facilities

Why Join RMIT?

Our people are at the heart of everything we do. At RMIT, we value innovation, collaboration and impact. Our values are the heart (durrung) of who we are and what we stand for at RMIT. They guide what we do, how we make decisions, and how we treat each other.

Inclusion   Imagination   Integrity   Courage   Passion   Impact

Learn more about our values: https://www.rmit.edu.au/about/our-strategy/values

Organisational Accountabilities

RMIT is committed to the safety, wellbeing and inclusion of all staff and students. As a staff member, you are expected to comply with all relevant legislation and RMIT policies, including those related to: Equal opportunity, Occupational health and safety, Privacy and trade practices & Child safety standards:

Appointees are responsible for completing all required training and ensuring that they and their team members remain up to date on relevant compliance obligations.

Staff are expected to understand and support RMIT's child safe practices as part of their professional responsibilities. More about our child safety commitment: https://www.rmit.edu.au/about/our-locations-and-facilities/facilities/safety-security/child-safety.

Leadership at RMIT

At RMIT, leadership is not defined by position or hierarchy—it is a shared responsibility demonstrated by all staff, regardless of role or title. Leadership is grounded in our six core values, which guide and shape how we work together, make decisions, and create impact.

Effective leadership means consistently integrating these values into everyday actions and interactions, whether influencing a project outcome, supporting a colleague, or leading a team. All staff are expected to embody the principles of the *Be–Know–Do* Leadership Model:

Be – We are open and authentic, inclusive and empowering. We are purpose driven role models and communicators.
Know – We are self-aware, and understand our stakeholders, our sector and priorities.
Do – We set clear direction and expectations, we develop ourselves and others and promote mutual accountability to deliver results.

At every level, leadership at RMIT is about influence, contribution, and mindset. It is reflected in how we empower others, foster collaboration, and drive positive change through capability-building and alignment to strategic goals.

The College of Vocational Education

STEM College is a community of exceptional STEM researchers, teachers, inventors, designers, and game-changers, supported by talented professional staff. We offer higher education programs across all STEM disciplines at the Bachelor, Master and PhD levels, and ensure our students experience an education that is work-aligned and life-changing.

School of Science
The School of Science provides more than 45 bachelor and postgraduate programs to 5,000 students and undertakes world-class research across the disciplines of: biosciences and food technology, applied chemistry and environmental science, physics, mathematical sciences and geospatial sciences.

This position will be based in the department of physics, within the RMIT Applied Quantum Technologies research centre.
https://www.rmit.edu.au/about/schools-colleges/stem-college/research/leading-research-centres/rmit-applied-quantum-technologies

Position Summary

The Research Fellow will work with research teams and partnerships in the School and Research Institutes. The Research Fellow is required to undertake research activities in line with the University's

research strategy. The position will carry out independent and/or team research which has a significant impact in the area of their specialisation and be acknowledged at a national level as being influential in expanding the knowledge of their relevant discipline.

The Research Fellow's role is primarily to plan, develop and engage in high quality research projects that are aligned with the University's research focus areas. The Research Fellow will embed their research expertise into the life of the School through the development of high-quality, productivity-driven research networks across RMIT and with local and national, internal and external partners. Research Fellows will be expected to engage in high quality research projects, to achieve success in attracting research funding and to produce high quality outputs.

Key Accountabilities

1. Conduct research/scholarly activities under limited supervision either independently or as a member of a team including: publishing and presenting research outputs at conferences and research forums; contributing to external research funding submissions; participating in supervision of higher degree by research candidates.

2. Undertake administration related to the position.

Key Selection Criteria

1. Demonstrated evidence of computational modelling experience, including code development and data analysis.

2. Ideally experience using one or more of the following:

   a. Molecular dynamics packages such as LAMMPS

   b. Empirical force field techniques such as ReaxFF, MACE etc.

   c. Phase-field modelling techniques

3. Evidence of research output including publications, conference contributions and/or technical reports in the field.

4. Ability to work autonomously whilst displaying a strong commitment to work in a team environment, including the demonstrated ability to confidently and effectively work with colleagues, project team leaders, and industry partners.

5. Demonstrated ability to meet deadlines and effectively manage varying workloads and respond to changing priorities as required.

6. Demonstrated high level of communication skills.

Qualifications

Mandatory: PhD qualification in the relevant discipline area, such as computational/theoretical physics, materials science, engineering, chemistry, or applied mathematics.

Working with Children Check

Appointment to this position is subject to holding a valid Victorian Working with Children Check and other checks as required by the specific role. Maintaining a valid Working With Children Check is a condition of employment at RMIT.