Position Description – Research Fellow

Position Details

Position Title: Research Fellow – ARC CoE TMOS – Optical Integrated Sensors

College/Portfolio: STEM **School/Group:** Engineering

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**

Employment Type: Fixed term

Fixed Term Reason: **Research**

Reporting Line: Distinguished Professor Madhu Bhaskaran

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.

ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS)

The ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS) brings together five Australian and 13 leading international universities as well as Australian and global companies to create entirely new optics-based technologies with enormous market potential. The Centre has received $34.9 million funding from the Australian Research Council to operate from 2020-2027.

TMOS will develop the next-generation of miniaturised optical systems with functionalities beyond what is conceivable today. By harnessing the disruptive concept of meta-optics, the Centre will overcome complex challenges in light generation, manipulation and detection at the nanoscale. The Centre brings together a trans-disciplinary team of world-leaders in science, technology and engineering to deliver scientific innovations in optical systems for the Fourth Industrial Revolution.

As a Centre, we strongly believe that diversity improves ideas and innovation and leads to better outcomes and productivity. Diversity and fostering a culture of inclusiveness will be a key contributor to the scientific excellence of TMOS. Along with other initiatives, we will provide carer grants to support our centre members with caring / family responsibilities to participate in professional activities.

TMOS aims to develop a multidisciplinary, dynamic, interactive and collaborative culture fostering future research leaders who thrive in academic excellence and are equipped with strong transferable skills. The centre will also offer a mentoring program for early career researchers while providing opportunities to hone other skills such as outreach, industry engagement, and building international networks.

Details relating to the Centre can be found on: www.tmos.org.au

Position Summary

The Research Fellow will be a part of the RMIT node of the ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS). The Research Fellow is required to undertake research activities in line with the Centre's strategy. The position will involve a combination of independent and collaborative research which has a significant impact in the area of nano-optical devices and applied technologies.

The Research Fellow's role is primarily to plan, develop and engage in high quality research projects that are aligned with the objectives of the ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS). They will also contribute to ongoing related research projects and in postgraduate research training. 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. Undertake research activities aligned to ARC Centre of Excellence TMOS.
2. Lead activities and collaborate on research team projects covering fundamental research and applied technologies in areas of optics, electronics, optoelectronics, and medical technologies.
3. Apply for competitive research funding, fellowships, and awards, where possible.
4. Develop and extend collaborations with national and international researchers.
5. Participate in co-supervision of postgraduate by research students.
6. Contribute to the successful project management of the research by completing assigned work at the required level and within agreed timeframes.
7. Communicate research outcomes through high quality papers/journal articles, delivery of seminars, and conference attendance.
8. Participate in professional development activities.
9. Participate in annual work planning and performance management processes.

Key Selection Criteria

1. Emerging track record and recognition for quality research outputs evidenced by publications, development of new research initiatives, competitive research funding, and/or industry links.
2. Demonstrated experience in LED and photodetector based optical sensor technologies
3. Demonstrated experience in surface mount device components will be beneficial.
4. Demonstrated experience in microfabrication/nanofabrication, and materials characterisation. Demonstrated experience in polymer based fabrication processes will be beneficial.
5. Indication of ability to grow networks and build research collaborations.
6. Demonstrated ability to clearly communicate research results, concepts and knowledge.
7. Excellent interpersonal and communications skills appropriate for interacting with higher degree by research candidates, staff and industry, together with a strong commitment to teamwork and multidisciplinary collaboration.

Qualifications

Mandatory: PhD or equivalent in relevant field

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.