



Position Description – Research Fellow

Position Details

Position Title: Research Fellow – Control of Multiagent Systems

College/Portfolio: STEM College

School/Group: School of Engineering

Campus Location: Based at the Melbourne campus but may be required to work and/or be based at other campuses of the University.

Classification: Academic Level B

Time Fraction: 1.0 FTE

Employment Type: Fixed Term - Research

Fixed Term Reason: Research

Reporting Line: Distinguished Professor Xinghuo Yu

No. of Direct reports: 0

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.



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.

School of Engineering

The School of Engineering comprises a diverse range of disciplines: Aerospace Engineering & Aviation; Chemical & Environmental Engineering; Civil & Infrastructure Engineering; Electrical & Electronic Engineering, Biomedical Engineering; Manufacturing, Materials & Mechatronic Engineering; Mechanical & Automotive Engineering.

As a top 100 university in the world for engineering (2015 QS Rankings by Faculty; Engineering and Technology), RMIT Engineering provides students with work-relevant education programs, access to excellent research facilities and opportunities to engage in creative real-world project work through robust relations with local and international industry leaders.

RMIT Engineering's education is based on innovation and creativity. Key discipline areas in the School of Engineering provide programs with flexible pathways to global careers or postgraduate research.

Details relating to the School/College Office may be found on at: www.rmit.edu.au/stem-college

Position Summary

The Research Fellow will work with research teams and partnerships in the School and Research Centres. 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. The Research Fellow 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

- Undertake research and development activities in learning, control and optimisation in multiagent systems.
- Prepare research grant applications, particularly targeting Category 1 grant outcomes.
- Prepare high profile research publications in top journals and conferences as lead or co-author.
- Developing proof of concept ready for commercialisation.
- Develop collaborations with national and international researchers, particularly focussing on linkages in the areas related to energy scheduling and dispatch using artificial intelligence technologies.
- Co-supervision of postgraduate by research students.
- Contribute to the successful project management of the research by completing assigned work at the required level and within agreed timeframes.
- Communicate research outcomes through high quality papers/journal articles, delivery of seminars and conference attendance.
- Participate in annual work planning and performance management processes.
- Perform other duties that may be required for the efficient operation of the research team

Key Selection Criteria

1. Demonstrated research track record in learning, control and optimisation of multiagent systems.
2. Publications in top-tier conferences and journals relevant to the above fields.
3. Demonstrate ability to clearly communicate research results, concepts and knowledge.
4. Demonstrated initiative in research and problem solving.
5. Demonstrated ability to work effectively both as a member of a research team and independently when required, to meet project outcomes and milestones.

Qualifications

Mandatory: PhD in electrical and electronic engineering and/or applied mathematics, in particular, in an area of learning, control and optimisation of multiagent systems.

Experiences in dealing with complex networks and/or variable structure systems and/or sliding mode control would be desirable.

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.