THE UNIVERSITY OF
MELBOURNE

School of Electrical, Mechanical and Infrastructure Engineering
Faculty of Engineering and Information Technology

Departmental Research Fellow in Systems Engineering

POSITION NO	0057153
CLASSIFICATION	Research Fellow Grade 1 (Level A) or Research Fellow Grade 2 (Level B) Level of appointment is subject to qualifications and experience
SALARY	Level A: $77,171 - $ 104,717 p.a. Level B: $110,236 - $130,900 p.a. (pro rata for part-time)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-time (1.0 FTE)
BASIS OF EMPLOYMENT	Fixed-term for up to 3 years Applications for part-time or other flexible working arrangements will be welcomed and will be fully considered subject to meeting the inherent requirements of the position
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Professor Chris Manzie Tel +61 3 8344 6699 Email manziec@unimelb.edu.au *Please do not send your application to this contact*

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of country throughout Australia. The University recognises the unique place held by Aboriginal and Torres Strait Islander peoples as the original custodians of country and their continued connection to the land, waterways, songlines and culture. The University respects all Aboriginal and Torres Strait Islander People and warmly embrace those students, staff, Elders and collaborators who identify as First Nations.

Commitment to Diversity and Inclusion

The Faculty of Engineering and Information Technology (FEIT) is committed to creating a diverse and inclusive environment that welcomes and values all people. We recognise that diversity is essential in contributing to the success of FEIT. Women, Aboriginal and Torres Strait Islanders, the LGBTIQ+ community, people living with disability and those from a culturally and linguistically diverse background, are strongly encouraged to apply.

Position Summary

This is a unique position established to help foster the departmental strategy for Electrical and Electronic Engineering, specifically focusing on the opportunities that arise at the boundaries of our current research groups in Control and Signal Processing; Power and Energy; Communications and Networks; and Electronic and Photonic Systems.

The successful candidate will have a vision for future exciting directions of research in electrical and electronic engineering, and will undertake independent research that contributes to multiple research groups. Their role will involve interacting and collaborating with multiple academics to produce high quality research outputs, as well as identifying and applying for research funding from a diverse range of options including industry and government schemes.

The successful candidate will be an ambassador for the Department, and seek to promote their research outcomes and the Department in positive and constructive ways.

They may undertake small amounts of teaching and research supervision directly related to the area of research, as required.

1. Key Responsibilities

1.1   TEACHING AND LEARNING

- Contribute to teaching, training, scientific mentoring and supervision of students;
- Supervise junior research staff in the appointee's area of expertise;
- Conduct lectures, tutorials, mark and undertake laboratory duties as required by the Department. (if required)

1.2   RESEARCH AND RESEARCH TRAINING

- Independently plan and carry out research at the intersection of Departmental research groups in line with the strategic directions of the Department of Electrical and Electronic Engineering;
- Develop effective timelines and milestones based on goals of the research programme;
- Regularly write technical reports on the outputs of the experiments conducted, and maintain accurate and detailed records of all experiments conducted;
- Participate in preparation of manuscripts for publication in peer-reviewed journals;
- Liaise effectively with collaborators with a variety of internal and external stakeholders;
- Assist other researchers in carrying out experiments in order to work as a team and further the department's research output;
- Contribute to the development of the Department's and the School's strong research program in Control and Signal Processing, Power and Energy, Communications and Networks, Electronic and Photonic Systems;

1.3   LEADERSHIP AND SERVICE

- Active participation in the communication and dissemination of research;
- Identify sources of funding to support individual or collaborative projects, relating to teaching, research and engagement practice in the discipline;

▹ Effective supervision of research support staff

1.4   ENGAGEMENT

▹ Active participation in some outreach activities relating to research and scholarship;

▹ Effective liaison with external networks to foster collaborative partnerships;

▹ Involvement in professional activities, including consultations and referrals;

▹ Present results at local, national forums;

▹ Attend and actively participate in departmental seminars, meetings and/or committee memberships.

2. Selection Criteria

2.1   ESSENTIAL

▹ A PhD Electrical or Electronic Engineering, or closely related discipline;

▹ A record of quality research as evidenced by publications in leading journals and at conferences commensurate with opportunity;

▹ Ability to perform independent research and a commitment to lead interdisciplinary research projects evidenced by a well-considered research plan for the duration of the appointment;

▹ Demonstrated capacity to communicate research concepts to technical and non-technical audiences;

▹ Excellent ability in analysing data, problem solving and maintaining accurate research records;

▹ Capability for innovative research, as evidenced by scholarly publication;

▹ Experience in using initiative, working with minimal supervision and ability to prioritise tasks to achieve project objectives within timelines;

▹ Excellent written and verbal communication skills, demonstrated by presentation of research results at conferences, internal forums and through manuscript submissions;

▹ Excellent interpersonal skills, including an ability to interact with internal and external stakeholders (academic, administrative and support staff) in a courteous and effective manner.

2.2   ADDITIONAL ESSENTIAL CRITERIA FOR APPOINTMENT AT LEVEL B

At Research Fellow Level B, the successful applicant must demonstrate all of the above, and additionally must demonstrate:

▹ An outstanding background in either of the project areas;

▹ Demonstrated ability to perform independent research and a commitment to interdisciplinary research;

- Demonstrated ability to work with limited supervision in a self-directed manner and as a member of a research team, and to interact in a courteous and effective manner with academic, administrative and support staff.

2.3   DESIRABLE

- Experience in supervision of students and/or research assistants;
- Experience in the completion of ethics applications and submission of grant applications;
- Ability to structure, engage and present information clearly to various audiences;

2.4   SPECIAL REQUIREMENTS OF THE ROLE

- This position requires the incumbent to hold a current and valid Working with Children Check.
- Occasional work out of ordinary hours, travel, etc.
- Perform other tasks as requested by the supervisor or the Head of the Department;

3. Other Information

SCHOOL OF ELECTRICAL, MECHANICAL AND INFRASTRUCTURE ENGINEERING

https://eng.unimelb.edu.au/about/departments/school-of-electrical-mechanical-and-infrastructure-engineering

The School of Electrical, Mechanical and Infrastructure Engineering (EMI) undertakes teaching and research across a range of disciplines that are internationally recognised for their contribution to fundamental research. EMI has several well-established industry linkages and international partnership and is building a vibrant profile of interdisciplinary research, working with industry with an aim to contribute to society. EMI offers a comprehensive range of accredited Master of Engineering and Master of Information Technology programs taught through the Electrical, Mechanical and Infrastructure departments as well as professional Masters programs. The School has a substantial cohort of research higher degree students.

A major focus of the School is to attract and retain outstanding and internationally recognised academic staff. EMI is committed to increasing the number of female engineers and scientists on its staff.

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING
http://www.ee.unimelb.edu.au

The Department of Electrical and Electronic Engineering is a vibrant community of internationally recognised researchers focused on addressing major challenges in Power and Energy Systems; Communication Networks; Electronic & Photonic Devices and

Materials; and Systems Engineering. We have long-standing, strong partnerships with industry and government that support our researchers in conducting high impact research. The Department offers both PhD and Masters level research degrees, and our research graduates are highly sought after in academia and industry.

The Department also aims to deliver outstanding graduate outcomes in our coursework programs. These include the two-year professionally accredited Master of Engineering (Electrical) program, and the significant contributions to the three-year Electrical Systems major in the Bachelor of Science.

3.1 FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

The Faculty of Engineering and Information Technology (FEIT) has been the leading Australian provider of engineering and IT education and research for over 150 years. We are a multidisciplinary School organised into three key areas; Computing and Information Systems (CIS), Chemical and Biomedical Engineering (CBE) and Electrical, Mechanical and Infrastructure Engineering (EMI). FEIT continues to attract top staff and students with a global reputation and has a commitment to knowledge for the betterment of society.

FEIT has never been better positioned as a global leader, anchored in the dynamic Asia Pacific region, creating and curating knowledge to address some of the world's biggest challenges. Through our students and our relationships with communities, we can not only respond to society's needs but anticipate and create engineering and IT solutions for the future.

https://eng.unimelb.edu.au/

https://eng.unimelb.edu.au/about/join-feit

Our ten-year strategy, FEIT 2025, is our commitment to bring to life the University-wide strategy Advancing Melbourne and reinforce the University of Melbourne's position as one of the best in the world.

To achieve our ambitions, we will continue to build new infrastructure to enable our teaching, research and engagement; we continue to recruit outstanding people from around the world; and we continue to attract high-quality students from across the globe who are at the heart of our enterprise.

https://eng.unimelb.edu.au/about/feit-2025

3.2 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at
http://about.unimelb.edu.au/careers

3.3 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.

- We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.

- We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.

- We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes; place, community, education, discovery and global.

3.4 EQUAL OPPORTUNITY, DIVERSITY AND INCLUSION

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create an environment where the compounding benefits of a diverse workforce are recognised

as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

3.5 GOVERNANCE

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at https://about.unimelb.edu.au/strategy/governance

4. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

https://safety.unimelb.edu.au/people/community/responsibilities-of-personnel

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.