POSITION DESCRIPTION

The University of Melbourne 
(logo)

**Electrical and Electronic Engineering**Faculty of Engineering and Information Technology

**Research Fellow in Wireless Communications**

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| --- | --- | --- | --- |
| position no | | 0053539 | |
| classification | | Level A | |
| Salary | | $75,289 - $102,163 p.a. (pro rata for part-time) | |
| Superannuation | | Employer contribution of 10% | |
| WORKING HOURS | Full-time (1 FTE) | |
| |  |  | | --- | --- | | BASIS OF EMPLOYMENT |  | | Fixed-term position for 15 months.  *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](http://hr.unimelb.edu.au/careers), select the relevant option (‘Current Staff’ or ‘Prospective Staff’), then find the position by title or number. | |
| contact For enquiries only | | Rajitha Senanayake  Email  [rajitha.senanayake@unimelb.edu.au](mailto:%20rajitha.senanayake@unimelb.edu.au)  Please do not send your application to this contact | |

For information about working for the University of Melbourne, visit our websites:   
about.unimelb.edu.au/careers

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 the Faculty. 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. Those seeking support in submitting an application are welcome to contact the HR team at [feit-hr@unimelb.edu.au](mailto:feit-hr@unimelb.edu.au)

Position Summary

You will work with a team led by Dr. Rajitha Senanayake and Prof. Jamie Evans to study the analysis and design of future wireless communication systems. More specifically, you will focus on integrated sensing and communication systems and investigate the theoretical and simulated performance of different communication and resource allocation schemes. You must have an outstanding and established background in communications and signal processing.

You will conduct independent research, leading to the preparation and publication of research outcomes in conferences and journals. You will be located in the Department of Electrical and Electronic Engineering in the Faculty of Engineering and Information Technology and will be expected to be an active member of the Department, collaborating with other researchers. You may undertake small amounts of teaching and research supervision directly related to your area of research, as required.

Selection Criteria

## ESSENTIAL

* A PhD in Wireless Communications, or closely related discipline;
* A record of quality research as evidenced by publications in leading journals and at conferences commensurate with opportunity;
* An outstanding background in communications and signal processing
* Ability to perform independent research and a commitment to interdisciplinary research;
* Excellent ability in analysing data, problem solving and maintaining accurate research records;
* Capability for innovative research, as evidenced by scholarly publication;
* Demonstrated experience in using initiative, working with minimal supervision and ability to prioritise tasks to achieve project objectives within timelines;
* High level computer skills, including the ability to write numerical simulation programs in MATLAB or equivalent;
* 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.

## DESIRABLE

* Experience in radar sensing or related areas;
* 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;

Key Responsibilities

## RESEARCH – ADVANCEMENT OF DISCIPLINE

* Independently plan and carry out research on the nominated research project and work towards completion of the aims of the project;
* Develop effective timelines and milestones based on goals of the research programme;
* Perform data and microstructure analysis, and be responsible for qualitative and statistical analysis of research data and to communicate this information to the Chief Investigators and collaborators;
* 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 Wireless Communications;
* Work towards building an independent research project;

## 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)

## 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.

## SERVICE AND LEADERSHIP

* 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;

## OTHER

* Perform other tasks as requested by the supervisor or the Head of the Department;
* This position requires the incumbent to hold a current and valid Working with Children Check.
* Occasional work out of ordinary hours, travel, etc.
* Undertake Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in Section 4.

1. ***Equal Opportunity, Diversity and Inclusion***

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 University’s People Strategy and policies that address diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

Employees are required to behave in a manner that creates; supports and encourages an inclusive and safe work environment for all.

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

1. ***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.

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](http://www.eng.unimelb.edu.au/study/undergraduate/electrical.html).

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## 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>

## The University of Melbourne

Established in 1853, the University of Melbourne is a public-spirited institution that makes distinctive contributions to society in [research](https://research.unimelb.edu.au/), [learning and teaching](https://about.unimelb.edu.au/teaching-and-learning) and [engagement](https://engagement.unimelb.edu.au/). It’s consistently ranked among the leading universities in the world, with international rankings of world universities placing it as number 1 in Australia and number 32 in the world (Times Higher Education World University Rankings 2017-2018).

The University’s 10-year strategy, *Advancing Melbourne* will enable the University to contribute to advancing the state and national interest and make vital contributions to Australia’s standing on the world stage. We seek to be a leading force in advancing Australia as an ambitious, forward-thinking country while increasing its reputation and influence globally. <https://about.unimelb.edu.au/strategy/advancing-melbourne>

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