

## Position Description – Research Fellow

### Position Details

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<b>Position Title:</b>	Research Fellow
<b>Position Number:</b>	New
<b>Portfolio:</b>	Science, Engineering and Health
<b>School/Group:</b>	School of Engineering
<b>Campus Location:</b>	Based at the City campus but may be required to work and/or be based at other campuses of the University.
<b>Classification:</b>	Level B
<b>Employment Type:</b>	Fixed term 2 years
<b>Time Fraction:</b>	1.0

### RMIT University

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RMIT is a global university of technology and design, focused on creating solutions that transform the future for the benefit of people and their environments.

One of Australia's original educational institutions founded in 1887, RMIT University now has 82,000 students including 12,000 at postgraduate level.

The University enjoys an international reputation for excellence in professional and practical education, applied and innovative research, and engagement with the needs of industry and the cities in which we are located.

With three campuses in Melbourne (Central Business District, Brunswick and Bundoora), two in Vietnam (Hanoi and Ho Chi Minh City) and a centre in Barcelona, Spain, RMIT is a truly global university. RMIT also offers programs through partners in Singapore, Hong Kong, mainland China, Indonesia, Sri Lanka, Belgium, Germany, Austria and The Netherlands, and enjoys research and industry partnerships on every continent.

RMIT prides itself on the strong industry links it has forged over its 128-year history. Collaboration with industry is integral to the University's leadership in applied research and education, and to the development of highly skilled, globally focused graduates.

We are a 5-Star university under the QS Stars international evaluation system, and are 32nd in the world among universities less than 50 years old (2014 QS Top 50 Under 50 index).

RMIT features among the world's top 200 institutions in 13 of the 30 subject areas in the 2015 QS subject rankings. We are among the world's top 100 universities in Art and Design; Architecture and the Built Environment; Engineering (Civil and Structural; Electrical and Electronic; and Mechanical, Aeronautical and Manufacturing); Computer Science; and Business and Management Studies. [www.rmit.edu.au](http://www.rmit.edu.au)

### College/Portfolio/Group

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The College comprises four Schools delivering a broad range of programs in science, engineering, health and technology at apprenticeship, certificate, bachelor, masters and PhD levels. Many programs articulate between vocational and higher education, creating pathways for further study. There is a vibrant research community attracting funding from a range of government and industry sources. The College has an annual income of approximately \$425 million and employs over 1,000 staff providing on and offshore programs to approximately 20,000 students. Details relating to the College may be found on at: [www.rmit.edu.au/seh](http://www.rmit.edu.au/seh)

### School of Engineering

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The School of Engineering comprises a diverse range of disciplines: Aerospace Engineering and Aviation; Chemical and Environmental Engineering; Civil and Infrastructure Engineering; Electrical and Biomedical Engineering;

Electronic and Telecommunications Engineering; Manufacturing, Materials and Mechatronics Engineering; Mechanical and 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 at: [www.rmit.edu.au/seh](http://www.rmit.edu.au/seh)  
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### **Position Summary**

The Research Fellow will work as a member of a team undertaking research in the Communication Technologies Research Centre. The work will involve research in the development and application of a multifunction aperture as defined by the research contract with the Defence Science Technology Group (DSTG). This project investigates the potential system architecture of a transmitter and receiver for the multi-beam antenna arrays with predictions of their performance. It also provides a scoping of the main challenges in designing the transceivers (such as the design of tunable filters, circulators and low noise amplifiers), especially for the case where concurrent multi-band multi-beam antenna arrays are presented. The Research Fellow may be required to supervise undergraduate, postgraduate and research students on projects being conducted within the DSTG project.

The project duration is 2 years, however, the contract is to be renewed yearly.

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### **Reporting Line**

Reports to: Associate Dean, Electronic and Telecommunications Engineering  
Day to day reporting is to the Project Leader

Direct reports: None

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### **Organisational Accountabilities**

RMIT University is committed to the health, safety and wellbeing of its staff. RMIT and its staff must comply with a range of statutory requirements, including equal opportunity, occupational health and safety, privacy and trade practice. RMIT also expects staff to comply with its policy and procedures, which relate to statutory requirements and our ways of working.

Appointees are accountable for completing training on these matters and ensuring their knowledge, and the knowledge of their staff, is up to date.

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### **Key Accountabilities**

1. Undertake research and commercial projects within the core activities of the DSTG research project.
2. Prepare high profile research publications and reports for the DSTG research project.
3. Assist in the co-supervision of postgraduate by research students, postgraduate coursework project students and undergraduate project students.
4. Contribute to the successful project management of the research by completing assigned work at the required level and within agreed timeframes.
5. Communicate research outcomes through high quality papers/journal articles, delivery of seminars and conference attendance.
6. Participate in annual work planning and performance management processes.
7. Perform other duties that may be required for the efficient operation of the research team.
8. Participate in the teaching and learning program appropriate to areas of expertise as required.

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### **Key Selection Criteria**

1. Demonstrated excellent research track record in the field of RF/microwave systems and circuits.

2. Demonstrated ability to experimentally realise and characterise microwave circuits and systems.
3. Proven ability to undertake scientific research and development in research programs.
4. Demonstrated ability to clearly communicate research results, concepts and knowledge.
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**

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Mandatory: PhD in Electrical Engineering, Communication Engineering, Applied Physics or related science discipline. Also, candidates who are in the process of obtaining their Ph.D. may be considered for the position. Australian citizenship is mandatory.

Appointment to this position is subject to passing a Working with Children check

<b>Endorsed:</b>	Signature:  Name: Assoc. Prof. James Scott Title: Assoc. Dean Electronic & Telecommunications Engineering Date:	<b>Approved:</b>	Signature:  Name: Professor Adrian Mouritz Title: Executive Dean, Engineering Date:
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