Position Description –Senior Research Fellow

Position Details

Position Title: Senior Research Fellow

Position Number: New

Portfolio: Science, Engineering and Health

School/Group: School of Engineering

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

Classification: Level C

Employment Type: Fixed term 2 years

Time Fraction: 1.0

RMIT University

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

College/Portfolio/Group

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

School of Engineering

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
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Position Summary

The Senior 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 adaptive mactching circuit, circulators and low noise amplifiers), especially for the case where concurrent multi-band multi-beam antenna arrays are presented. The Senior 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.

Reporting Line

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

Direct reports: None

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.

Key Accountabilities

Make independent and original contributions to research acknowledged at a national level within and for the DSTG research project including: developing highly successful research teams; managing research projects and programs within timelines and budget and ensuring compliance with quality and reporting requirements; publishing research results in high quality outlets as lead author and in collaboration with other researchers; attracting and supervising higher degree by research candidates.
Provide leadership in research, including research training and supervision and leading research teams.
Lead Research Group and/or discipline research strategy development and participate in School and College strategy development and governance.
Demonstrated ability to experimentally realise and characterise microwave circuits such as adaptvie matching network, circulator and filters.

Key Selection Criteria

1. Emerging nationally recognised research track record including substantial record of research outputs in RF/Microwave transceivers for radar and communication systems.
2. Extensive experience in research leadership with the ability to build and develop collaborative research teams, mentor academic staff to deliver high quality outcomes, manage funded research projects including complex budgets and reporting requirements.
3. Extensive experience in supervising higher degree by research candidates to maximise research performance.
4. 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 in Electrical Engineering, Communication Engineering, Applied Physics or related science discipline. Also, candidates who have experience in the field of RF/Microwave circuits and systems are considered for the position. Australian citizenship is mandatory.

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

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