POSITION DESCRIPTION

THE UNIVERSITY OF MELBOURNE

School of Electrical, Mechanical and Infrastructure Engineering
Melbourne School of Engineering

Senior Research Fellow in Defence Biotechnologies

In line with the special measure H103/2014 provided for under section 12 of the Equal Opportunity Act 2010 (VIC), the Melbourne School of Engineering strongly encourages applications from suitably qualified female candidates.

POSITION NO	0045406
CLASSIFICATION	Senior Research Fellow (Level C)
SUPERANNUATION	Employer contribution of 9.5%
WORKING HOURS	Full-time (1.0 FTE)
BASIS OF EMPLOYMENT	Fixed Term position available for 2 years Fixed-term contract type: Externally Funded
OTHER BENEFITS	http://about.unimelb.edu.au/careers/working/benefits
CURRENT OCCUPANT	New
HOW TO APPLY	To apply online go to http://about.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	Professor Len Sciacca Tel +61 3 8344 6954 Email len.sciacca@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

Position Summary

As part of its new strategy, MSE 2025 wants to strengthen its expertise in defence science and technology. The Department of Electrical and Electronic Engineering in conjunction with other Departments and Faculties across the University is enhancing its engagement with US and Australian Defence agencies and defence industry.

The School has appointed an Enterprise Professor in defence Technologies to facilitate the development of a strong defence research portfolio. This role will work closely with the Enterprise Professor to further enhance and realise defence research contracting and engagement opportunities in two key areas: medical Countermeasures and Enhanced Human Performance. The role will have a strong outreach component to Defence Science and Technology Group as well as international (primarily US) collaborators. Because of the nature of the work, the successful candidate may be required to obtain and hold a defence NV1 security clearance as a minimum.

This position will be central to a deeper engagement with Defence Science and Technology Group of the Australian Department of Defence, various defence industries, Lockheed Martin's new research laboratory STeLaRLab and US Defence agencies such as AFOSR and DARPA.

The role will be expected to play a leading role in developing an exciting research program in defence engineering and technology addressing the Australian defence science priorities, enhance the US Department of Defence engagement and help build collaborative partnerships with leading international and national research institutions and industry. The role will also work across all Faculties to build a multidisciplinary team for medical Countermeasures and Enhanced Human Performance.

The role will work as an academic specialist in the School with 1 EFT engagement supporting the Enterprise Professor Defence Technologies. The role will be also contribute to the broader industry engagement across the school and other faculties and a strong interaction with the Research Innovation Commercialisation office.

This position is available for 2 years and will be reviewed at the end of this period.

The Melbourne School of Engineering is strongly committed to supporting diversity and flexibility in the workplace. 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.

The University plan seeks to increase the diversity of the workforce and the representation of women in areas they have been traditionally under-represented. Consistent with this, the School is seeking to increase the representation of women in the academic workforce across engineering disciplines. Under a Special Measure, under Section 12 (1) of the Equal Opportunity Act 2010 (Vic) the School is seeking to lift the representation of women from 20% in 2014 to at least 25% over the next 5 years, and strongly encourages applications from suitably qualified female candidates.

1. Selection Criteria

1.1 ESSENTIAL

- A research doctorate or equivalent in Science or Engineering or other relevant field;
- A national or international reputation in defence science related area;

- An excellent track record of contributing to the discipline through peer reviewed journals of high international standing;
- Demonstrated excellence in engagement with defence end-users, industry as well as providing high quality academic leadership in research, leading interdisciplinary teams and effectively managing research staff and students;
- Demonstrated capacity to work effectively at a high level with diverse and complex organisations including academics, professionals, technical experts, industry and government agencies;
- Excellent interpersonal, communication and negotiation skills;
- A strong record of successful interaction with (and funding support from) industry, government organisations and/or national competitive grant schemes;
- Demonstrated ability to develop strong links with the business sector, industry and government;
- Drive, energy and vision to build and lead a world-class research program.

1.2 DESIRABLE

- Demonstrated capacity for effective innovation, especially in initiating or responding to change in the academic and/or research environment;
- An understanding of the impact of changes in the Higher Education Sector impacting the University.

2. Special Requirements

It is an inherent requirement of the role for the successful candidate to undergo, acquire and maintain security clearance from the Australia Government, Department of Defence. Therefore, Australian Citizenship will be required.

3. Key Responsibilities

3.1 RESEARCH

- Provide academic leadership in industry engagement in the defence technologies platform;
- Take responsibility for and lead the research portfolio in the bio-medtech area in defence (Enhanced Human Performance and Medical Countermeasures);
- Work under the guidance of the Enterprise Professor - Defence Technologies to help the University obtain significant research funding from competitive grant and external bodies, i.e. industry and government;
- Coordinate research proposals when grant or project schemes are announced by Defence (including US proposals);
- Attract, supervise and mentor junior researchers and RHD students in the field of Electrical Engineering;
- Assist academics in the preparation and submission of research proposal applications to attract research funding;

- Mentor staff and research students to publish in top tiered refereed journals, books or monographs, reports and refereed conference proceedings;
- Promote collaborations across institutions, internationally and nationally to further research in the University as it relates to Defence Technologies.

3.2 LEADERSHIP AND SERVICE

- Lead the research projects with industry and government as relevant to ensure that they are completed within budget, on time, and of optimum quality;
- Manage personnel, including staff and contractors, assigned to undertake research strategy support and other engagement activities;
- Actively contribute to the overall leadership and strategic goals of the Defence Technologies platform in MSE and actively contribute to resource management and planning at MSE;
- Foster excellence in research engagement and develop best practice standards for the University;
- Develop collaborative opportunities with Australian and international industry and research facilities;
- Foster existing strategic relationships between the University and industry and develop new ones;
- Foster a harmonious workplace environment that is conducive to productivity; promotes creativity; and rewards and recognises individuals and group achievement.

3.3 ENGAGEMENT

- Champion ethical debate, research, education and industry engagement in Engineering and the University as a whole;
- Develop and implement education and research models which can be applied across a broad range of government and industry settings.

3.4 OTHER

- Undertake Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in Section 5;
- Perform other tasks or project as required by the Head of the Department.

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 University's People Strategy 2015-2020 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.

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.

5. 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:

http://safety.unimelb.edu.au/topics/responsibilities/

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

6. Other Information

6.1 SCHOOL OF ELECTRICAL, MECHANICAL AND INFRASTRUCTURE ENGINEERING

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

The School's aim is to attract and retain outstanding staff. The School is highly supportive of increasing the number of female staff.

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

The Department of Electrical and Electronic Engineering is a vibrant community of internationally recognised researchers focused on addressing major challenges in Power Systems; Computation and 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 as well as the following postgraduate coursework degrees:

Professional Master of Engineering (Electrical)

Master in Telecommunications Engineering (MTE)

The Department also contributes to the Electrical Systems major in the Bachelor of Science. Further information about the Department can be found under www.ee.unimelb.edu.au/

6.2 MELBOURNE SCHOOL OF ENGINEERING

www.eng.unimelb.edu.au

The Melbourne School of Engineering is one of Australia's leading Engineering Schools and aims to be the school of choice for the highest performing students and research staff in Australia and within the Time Higher Education Supplement top twenty Schools of Engineering internationally by 2020.

6.3 THE UNIVERSITY OF MELBOURNE

The University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The University offers staff many benefits and prospective staff are encouraged to view the following web links:

www.unimelb.edu.au

www.growingesteem.unimelb.edu.au

www.unimelb.edu.au/careers

6.4 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 www.unimelb.edu.au/unisec/governance.html.