



THE UNIVERSITY OF  
MELBOURNE

Melbourne School  
of Engineering

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# LECTURER POSITIONS FOR WOMEN IN ACADEMIA





## DIVERSITY AND INCLUSION

At the Melbourne School of Engineering (MSE) we recognise that our staff and students are individual and unique, and we celebrate the richness that comes with differences in age, race, gender, nationality, sexual orientation, physical ability and background. We are committed to creating an environment that values, supports and respects your views, knowledge and individual experience. MSE is working to:

- » Represent people with diverse attributes, experiences and backgrounds
- » Promote an inclusive culture in which staff feel valued, respected and comfortable being themselves in the workplace, and culture in which staff are encouraged to make meaningful and effective contributions at work.
- » Implement a zero-tolerance of behaviour, attitudes and practices that run counter to this diversity and inclusion

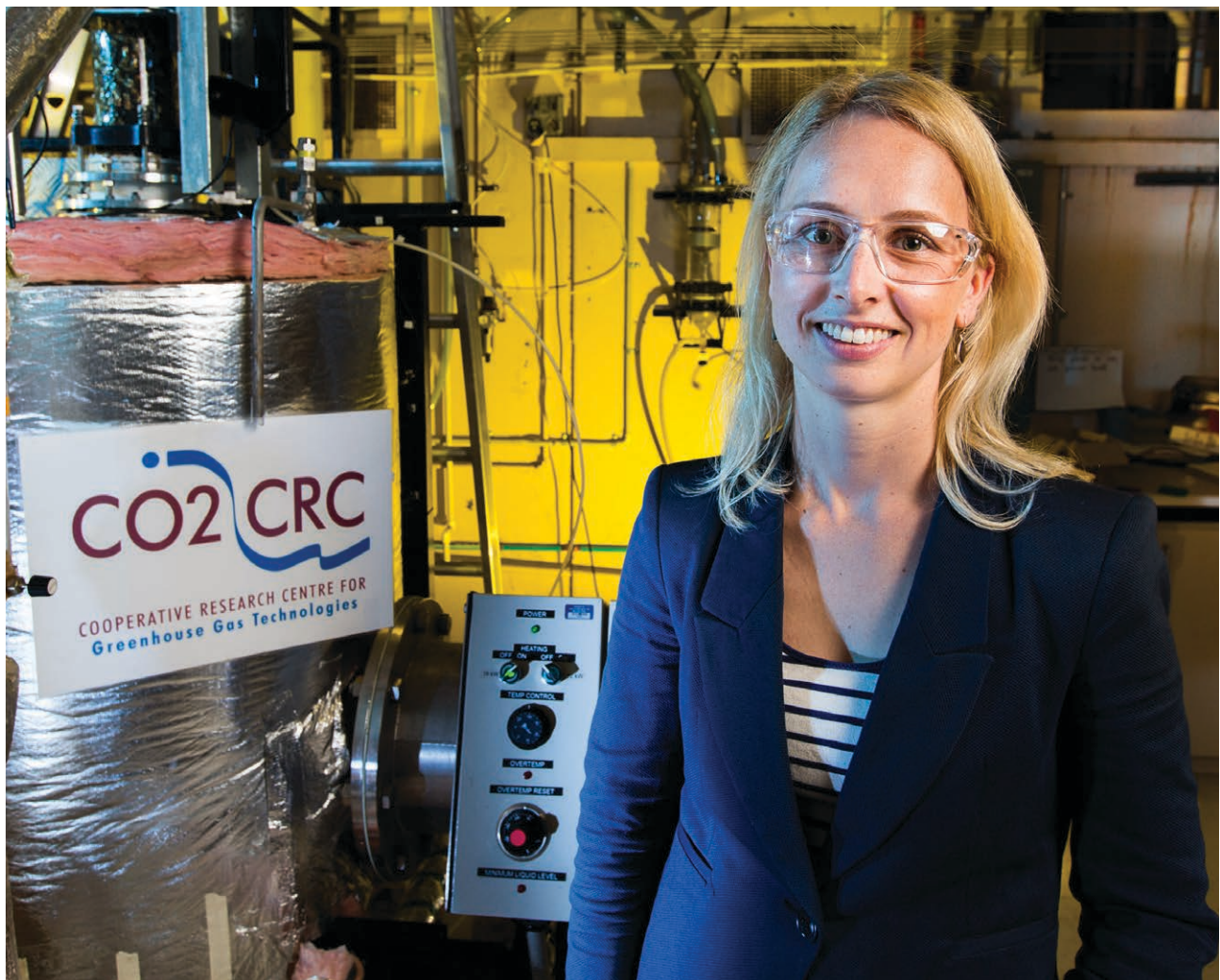
For more information on our values see  
<http://diversity.eng.unimelb.edu.au>



## ABOUT THE MELBOURNE SCHOOL OF ENGINEERING

MSE is the leading provider of engineering and IT education in Australia. For over 150 years the School has had an outstanding track record of research contributions that have benefited society and the Australian economy. We are creating the entrepreneurial leaders and technological breakthroughs of the future that will drive innovation and productivity to make a sustainable impact on the world in which we live. Our community of researchers are international pioneers in a diverse range of disciplines, and have forged strong partnerships with government and industry. Our partners provide platforms for translational research, inform our teaching, and provide employment pathways for our students.

MSE is organised around three Schools: Computing and Information Systems (CIS); Chemical and Biomedical Engineering (CBE); and Electrical, Mechanical and Infrastructure Engineering (EMI). We have 477 academic staff providing an academic student-staff ratio of 24:1. One-third of our 11,650 engineering and IT students are female. Through our 10-year strategy, MSE 2025, we aim to become the leading Engineering School in Australia and one of the leading Schools globally. We are investing \$450 million in people, doubling both the number of staff and the number of research students; and a further \$450 million on world-class infrastructure at the University's campus in Parkville and at a new campus in Fisherman's Bend.





## MESSAGE FROM THE DEAN

MSE has 182 female academic staff but this represents only 22% of our total academic staff. To address this imbalance, we have introduced a broad suite of programmes that are aimed at increasing the recruitment, retention and promotion of women. A key component of these programmes are five new continuing (tenurable) positions that are only available to outstanding women, in all fields of engineering, computing and information systems.



Diversity and inclusion in engineering and computing is essential because the makeup of the engineering and technology workforce needs to reflect the communities we seek to serve and because the quality of results and solutions are improved if people with a diverse range of skills and who bring diverse experiences are allowed to contribute to decision-making processes. Improving the

representation of women is clearly necessary to enhance the Melbourne School of Engineering as a world-leading centre of excellence for teaching and research.

This far-sighted initiative will ensure that our students and staff benefit from learning and working in a world-leading academic environment. Our vision for MSE is to develop engineering and IT leaders who will develop and advance

technologies for a sustainable future. Critical to this success will be vigorous community, industry and government partnerships supported by engineers who fully represent our complex society.

**Professor Graham Schaffer FTSE  
FAPMI FIEAust CPEng**  
Dean of Melbourne School  
of Engineering



## MESSAGE FROM HEAD OF SCHOOL (CHEMICAL AND BIOMEDICAL ENGINEERING)

The School of Chemical and Biomedical Engineering (CBE) encompasses both the Department of Chemical Engineering and the Department of Biomedical Engineering. This fusion of engineering disciplines provides a dynamic and interdisciplinary environment that is world-leading in both research and teaching. We translate fundamental chemical engineering research into applications in chemicals, materials and energy, and drive innovation in medical technologies, applied biology and neuroscience that have profound societal and economic impacts.



The School is home to several important Research Centres including the Peter Cook Centre for Carbon Capture and Research, the ARC Dairy Innovation Research Hub, the Particulate Fluids Processing Centre, the ARC Training Centre in Cognitive Computing for Medical Technologies and the ARC Centre of Excellence in Convergent Bio-Nano Science and Technology. We also have strong national and international linkages with industry, research institutes, universities, hospitals and government agencies.

Research areas in the Department of Chemical Engineering include materials development (including nanotechnology, polymer science and ceramics processing), separations technology (solvent extraction, membrane processing, solid-liquid separations, adsorption and filtration),

surface chemistry and rheology (colloid science, interfaces, atomic force microscopy, suspensions, non-Newtonian rheology) and bioprocessing. These four domains are underpinned by cross-domain strengths in applied process engineering and in mathematical modelling.

Research areas in the Department of Biomedical Engineering include biomaterials and tissue engineering, biomechanics and mechanobiology, bionics and neuroengineering, biomedical imaging and systems and synthetic biology, in close collaboration with other research groups in the Department, MSE and with industry, research institutes, hospitals and/or government agencies.

We offer four Masters of Engineering degrees (Chemical, Chemical with

Business, Biochemical, and Materials) with over 250 students, as well as undergraduate majors within the Bachelor of Science and Bachelor of Commerce.

Our vision is to cultivate future leaders and foster world-leading, industry-focused research in chemical and biomedical engineering. We aim to grow from our new beginnings into a School of world class reputation and world class size. We already have a number of outstanding women on our staff, including three female Professors and four other female continuing teaching and research staff. We are keen to have more women join us and would encourage you to apply for this fantastic opportunity.

**Professor Sandra Kentish**  
Head of School of Chemical and Biomedical Engineering





## MESSAGE FROM HEAD OF SCHOOL

### (ELECTRICAL, MECHANICAL, AND INFRASTRUCTURE ENGINEERING)

The School of Electrical, Mechanical and Infrastructure Engineering (EMI) combines rigorous academics and world-leading research, comprising the Department of Electrical and Electronic Engineering, the Department of Infrastructure Engineering and the Department of Mechanical Engineering. Across the School, we conduct research that use electrical systems to solve practical problems, contribute to the creation of sustainable infrastructure and leverage mechanical systems to improve society. We challenge and inspire students to new heights and prepare them for their role in the next generation of entrepreneurial, industrial and academic leaders.



The School is experiencing unprecedented growth, measured in the strategic expansion of facilities and infrastructure, and the reinvention of how we teach, conduct research, and engage with our external partners, in Australia and internationally. The investment in innovation-minded academic staff is central to achieving our expansion goals.

Research areas in the Department of Electrical and Electronic Engineering include Communications & Networks, Control & Signal Processing, Future Grid, and Photonics & Electronics.

Research areas in the Department of Mechanical Engineering include Autonomous Systems, Biomechanics, Fluid Mechanics and Thermodynamics.

Research areas in the Department of Infrastructure Engineering include Civil Engineering, Geomatics, and Environmental hydrology and water resources.

We teach in the Masters of Engineering program in Civil, Electrical, Environmental, Mechatronics and Spatial Engineering, and provide an additional Business specialisation with these options, in addition to the specialised Master of Energy Systems and the Master of Engineering Structures. In addition, we teach in undergraduate majors via the Bachelor of Science or Bachelor of Design degrees.

Under the leadership of the Melbourne School of Engineering, the departments of the EMI School are undergoing their

most ambitious expansion in over a century. To realize the full potential of the MSE 2025 vision, we are seeking applications from talented early career researchers, who embrace collaborative teaching and research, and whose perspectives align with serving the public good. In this regard, we particularly encourage qualified female applicants. Our School is committed to providing the entirety of our academic staff, and especially early-career researchers with the supportive environment and services to achieve their aspirations and to become world-leading academics in every sense.

**Professor Joseph Klewicki**  
Head of School of Electrical,  
Mechanical and Infrastructure  
Engineering



## MESSAGE FROM HEAD OF SCHOOL (COMPUTING AND INFORMATION SYSTEMS)

The School of Computing and Information Systems (CIS) is an international research leader in computer science, information systems and software engineering. In this discipline, the School was ranked number 1 in Australia and 14th in the world in the 2017 QS World University Rankings. Our work is dedicated to delivering impact – developing innovative solutions to derive value from data, leveraging tools, techniques and architecture to develop and operate connected systems, and creating applications that directly improve our business and personal lives. The significant growth of the School is centre to a bold 10-year strategy to transform the future of engineering and IT at the University and is a major initiative within the University's *Growing Esteem* strategy.



Our research areas are Data and knowledge, Platforms and systems and People and organisations, with several laboratories dedicated to each research area. The School is at the forefront of computing research in Australia and internationally with close links to major computing research initiatives, including Melbourne Bioinformatics, IBM Research, SocialNUI, and DATA61 (formerly NICTA). Expertise in the areas of health informatics/digital health, business information systems, software engineering, cybersecurity, or high-performance and distributed systems are of particular interest, but applicants whose work is aligned with any of the research groups in the School are encouraged to apply. Academics are

encouraged to collaborate in research within the School, the University, and industry and government industries.

We currently offer a large range of courses, including the Masters of Engineering program in Mechatronics, Software and Spatial Engineering, the Master of Science in Bioinformatics and Computer Science, the Master of Information Systems, Master of Information Technology and the Master of Data Science. At the undergraduate level, we teach five information technology majors within the Bachelor of Science and the Bachelor of Design. You will join an internationally recognised group of academics and make a significant

contribution to the teaching, research and administration of the School of Computing and Information Systems.

The School of Computing and Information Systems 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. We strongly encourage applications from talented female candidates.

**Professor Uwe Aickelin**  
Head of School of Computing and  
Information Systems





## POSITION SUMMARY

**MSE is offering five Lecturer (Level B, \$95,434 - \$113,323 p.a.) positions to female academics of exceptional calibre across all of our Schools:**

### **School of Electrical, Mechanical and Infrastructure**

- » Department of Electrical and Electronic Engineering
- » Department of Mechanical Engineering
- » Department of Infrastructure Engineering

### **School of Computer and Information Systems**

### **School of Chemical and Biomedical Engineering**

- » Department of Chemical Engineering
- » Department of Biomedical Engineering

Successful appointees will be expected to play a significant role in realising the industry engagement targets of MSE 2025, develop internationally recognised research portfolios, establish funding streams to support these portfolios, and to enhance interdisciplinary research within and outside the University, whilst contributing to teaching and curriculum development within MSE.





## APPLY NOW:

Detailed position descriptions can be found here: <http://jobs.unimelb.edu.au/>

### **School of Electrical, Mechanical and Infrastructure**

- » Department of Electrical and Electronic Engineering  
[www.ee.unimelb.edu.au](http://www.ee.unimelb.edu.au)
- » Department of Mechanical Engineering  
[www.mech.unimelb.edu.au](http://www.mech.unimelb.edu.au)
- » Department of Infrastructure Engineering  
[www.ie.unimelb.edu.au](http://www.ie.unimelb.edu.au)

### **School of Computing and Information Systems**

[www.cis.unimelb.edu.au](http://www.cis.unimelb.edu.au)

### **School of Chemical and Biomedical Engineering**

- » Department of Chemical Engineering  
[chemeng.unimelb.edu.au](http://chemeng.unimelb.edu.au)
- » Department of Biomedical Engineering  
[www.bme.unimelb.edu.au](http://www.bme.unimelb.edu.au)

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