



POSITION DESCRIPTION

School of Electrical, Mechanical and Infrastructure Engineering
Faculty of Engineering and Information Technology

Postdoctoral Research Fellow

POSITION NO	2 Positions available
CLASSIFICATION	Level A
SALARY	\$75,289 to \$102,163 (pro rata for part-time)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full Time (1 FTE)
BASIS OF EMPLOYMENT	<p>1 x Fixed term for 18 months</p> <p>1 x Fixed term for 2 years</p> <p><i>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</i></p>
OTHER BENEFITS	https://about.unimelb.edu.au/careers/staff-benefits
HOW TO APPLY	<p>Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.</p>
CONTACT FOR ENQUIRIES ONLY	<p>Professor Katja Holtta-Otto</p> <p>Email katja.holtta-otto@unimelb.edu.au</p> <p><i>Please do not send your application to this contact</i></p>

For information about working for the University of Melbourne, visit our website:
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

Position Summary

You will conduct independent research as part of a new engineering design and design theory and methodology group, leading to publications in top journals and conferences. You can be involved in acquiring research funding to gain academic experience. You may undertake small amounts of teaching and research supervision directly related to your area of research, as required. You will be located in the Department of Mechanical Engineering in the Faculty of Engineering and Information Technology (FEIT) and will be expected to be an active member of the Department, collaborating with other researchers.

1. Selection Criteria

1.1 ESSENTIAL

- ▶ A PhD in Mechanical Engineering, Product Development, Engineering Design or a closely related discipline;
- ▶ Skills and experience in design and design science;
- ▶ A record of high-quality research as evidenced by, for example publications in top journals;
- ▶ Excellent written and verbal communication skills;
- ▶ Excellent interpersonal skills and the ability to work both independently and as part of a team.

1.2 DESIRABLE

- ▶ Practical design skills demonstrated in a portfolio or patents;
- ▶ Strong analysis or hands-on skills as relevant to the research topic;
- ▶ Experience in interdisciplinary teamwork;
- ▶ Future oriented focus.

2. Key Responsibilities

2.1 TEACHING AND LEARNING

- ▶ Contribute to curriculum design, teaching, training, scientific mentoring and supervision of students as required.

2.2 RESEARCH AND RESEARCH TRAINING

- ▶ Working with the Chief Investigators, develop the research plan based on the goals of the research programme;
- ▶ Independently carry out research and work towards the research vision;
- ▶ Maintain accurate and detailed records of all research conducted;
- ▶ Participate in the preparation of manuscripts for publication in peer-reviewed journals;
- ▶ Liaise effectively with collaborators and a variety of internal and external stakeholders;

2.3 LEADERSHIP AND SERVICE

- ▶ 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 collaboration with research partners;
- ▶ Active participation in some outreach activities relating to research and scholarship;
- ▶ Effective liaison with external networks to foster collaborative partnerships;
- ▶ Involvement in professional activities;
- ▶ Present results at national and international forums;
- ▶ Attend and actively participate in departmental seminars, meetings and/or committee memberships.

2.4 OTHER JOB RELATED INFORMATION

- ▶ Perform other tasks as requested by the supervisor or the Head of the Department;
- ▶ Undertake Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in Section 4;
- ▶ Employment in this position is conditional upon receipt and maintenance of a Working with Children Check.

3. *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>

4. *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.

5. Other Information

DEPARTMENT OF MECHANICAL ENGINEERING

<http://www.mech.unimelb.edu.au>

The Department of Mechanical Engineering is one of the largest in Australia. The School provides teaching into subjects in the three-year undergraduate degrees of Science and Commerce, which can be followed by a two-year professional Master of Engineering.

The Department aims to attract and retain the highest quality staff available in order to maintain a vigorous research effort. We address the most urgent contemporary problems of our rapidly developing industrial society, with investigations into biomechanical engineering, fluid mechanics and thermal sciences.

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.

5.1 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>

5.2 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a public-spirited institution that makes distinctive contributions to society in research, learning and teaching and engagement. 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>

6. Application Requirements

Research Proposal

To assess your application, please submit along with your CV a brief Research Proposal (no longer than two A4 pages). Use the following headings to outline your research proposal:

- Aims and Background
- Methods
- Expected Outcomes
- Potential Impact and relevance to research area
- Reference list (not more than 5 references)