



## POSITION DESCRIPTION

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

### Research Engineer

<b>POSITION NO</b>	914157
<b>CLASSIFICATION</b>	A2
<b>SALARY</b>	\$84,835 p.a. (pro rata for part-time)
<b>SUPERANNUATION</b>	Employer contribution of 17%
<b>WORKING HOURS</b>	Full-time (1.0 FTE)
<b>BASIS OF EMPLOYMENT</b>	Full-time (fixed-term) position for 24 months Fixed term contract type: External Funding
<b>OTHER BENEFITS</b>	<a href="https://about.unimelb.edu.au/careers/staff-benefits">https://about.unimelb.edu.au/careers/staff-benefits</a>
<b>HOW TO APPLY</b>	Online applications are preferred. Go to <a href="http://about.unimelb.edu.au/careers">http://about.unimelb.edu.au/careers</a> , select the relevant option ('Current Opportunities' or 'Jobs available to current staff'), then find the position by title or number.
<b>CONTACT FOR ENQUIRIES ONLY</b>	Dr Kevin Kevin Tel +61 433567829 Email <a href="mailto:kevin.kevin@unimelb.edu.au">kevin.kevin@unimelb.edu.au</a>  <i>Please do not send your application to this contact</i>

For information about working for the University of Melbourne, visit our website:  
[about.unimelb.edu.au/careers](http://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.

## ***Position Summary***

We seek to employ a Research Engineer to assist in various projects related to aerodynamics and hydrodynamics. The main role of the incumbent is to be responsible for the technical aspects of specific research projects, under the broad direction of the academic leads, which includes performing a range of technical activities with the goal of the delivery of research and testing outcomes. You are expected to work in a dynamic team environment, in line with our growing project portfolio and ensure a safe work environment in the laboratory.

### ***1. Selection Criteria***

#### **1.1 ESSENTIAL**

- ▶ Undergraduate degree in Mechanical Engineering, Mechatronics, or other relevant engineering discipline;
- ▶ Demonstrated Design and Build ability;
- ▶ Demonstrated ability in problem solving, engineering and research capability;
- ▶ Demonstrated project experience in complex environments, and contribute to the planning, options development, feasibility assessment, and timely project execution;
- ▶ Communication and interpersonal skills, including an ability to interact with internal and external partners (academic, industry and support staff), project management in a research environment and to work collaboratively in a multi-disciplinary team environment.

#### **1.2 DESIRABLE**

- ▶ Experience with sensor systems and/or automation
- ▶ Experience in data analysis
- ▶ Able to build relationships with support staff such as machinists, and external partners, such as fabricators and suppliers.
- ▶ Some knowledge of Fluid Mechanics and experimental techniques.

### ***2. Key Responsibilities***

#### **2.1 RESEARCH AND CONSULTING WORK**

- ▶ Plan and carry out research on the nominated project, and work towards completion of the milestones and deliverables of the project.
- ▶ Develop effective timelines and milestones based on goals of the project.
- ▶ Write technical reports on the outputs of the research or work.
- ▶ Liaise effectively with internal and external collaborators.

#### **2.2 SCOPING, PLANNING & PROTOTYPING**

- ▶ Develop a project plan, scope and approach together with research leads and colleagues.

- ▶ Deliver technical work per the agreed project plan, collate and report results and provide validation methods using established and developed engineering practices.

### 2.3 ENGAGEMENT

- ▶ Liaise with partners with the aim to foster collaborative partnership.
- ▶ Report regularly on progress of the project.
- ▶ Liaise effectively with suppliers, such as on purchase of equipment or external service.

### 2.4 OTHER

- ▶ Perform other technical components of research tasks as requested by the supervisor.
- ▶ This position requires the incumbent to hold a current and valid 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)*

Be responsible for OHS matters in the laboratory, working with the Faculty of Engineering OHS support team.

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*

## 5.1 SCHOOL OF ELECTRICAL, MECHANICAL AND INFRASTRUCTURE ENGINEERING

<https://eng.unimelb.edu.au/about/departments/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.

## 5.2 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.

## 5.3 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>

#### 5.4 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>