

# POSITION DESCRIPTION



Faculty of Engineering and Information Technology

School of Electrical, Mechanical and Infrastructure Engineering

## Lecturer/Senior Lecturer in Electrical Power Systems

Position No	0060665
Classification	Lecturer (Level B) or Senior Lecturer (Level C)
Salary	119,231 - \$141,581 per annum + 17% super (pro rata for part-time) (Level B) \$146,050 - \$168,403 p.a. (pro rata for part-time) (Level C) In line with the special measure provided for under section 12 of the Equal Opportunity Act 2010 (VIC), the Faculty of Engineering & IT strongly encourages applications from suitably qualified women. <i>Level of appointment is subject to qualifications and experience</i>
Superannuation	Employer contribution of 17%
WORKING HOURS	Full-time (1.0 FTE)
BASIS OF EMPLOYMENT	Continuing 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
Other Benefits	<a href="https://about.unimelb.edu.au/careers/staff-benefits">https://about.unimelb.edu.au/careers/staff-benefits</a>
How to Apply	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.
contact For enquiries only	Prof. Chris Manzie Tel +61 3 8344 6731 Email <a href="mailto:manziec@unimelb.edu.au">manziec@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 the unceded land on which we work, learn and live: the Wurundjeri Woi Wurrung and Bunurong peoples (Burnley, Fishermans Bend, Parkville, Southbank and Werribee campuses), the Yorta Yorta Nation (Dookie and Shepparton campuses), and the Dja Dja Wurrung people (Creswick campus).

The University also acknowledges and is grateful to the Traditional Owners, Elders and Knowledge Holders of all Indigenous nations and clans who have been instrumental in our reconciliation journey.

We recognise the unique place held by Aboriginal and Torres Strait Islander peoples as the original owners and custodians of the lands and waterways across the Australian continent, with histories of continuous connection dating back more than 60,000 years. We also acknowledge their enduring cultural practices of caring for Country.

We pay respect to Elders past, present and future, and acknowledge the importance of Indigenous knowledge in the Academy. As a community of researchers, teachers, professional staff and students we are privileged to work and learn every day with Indigenous colleagues and partners.

## ***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 FEIT. 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***

A suite of new positions in the Departments Electrical & Electronic Engineering and Mechanical Engineering, in collaboration with the Melbourne Energy Institute, has been established for dynamic early-career academics with expertise in areas complementary to power and energy research activity at University of Melbourne. These include (but are not exclusive to) the following areas:

- Modelling and optimisation of integrated power and energy systems,
- Dynamics and control of inverter-based power systems or electric drives.

Lecturer/Senior Lecturer in Electrical Power Systems appointments will be within the Department of Electrical & Electronic Engineering.

You will make a significant contribution to the teaching, research and administration of one of these Departments. You will teach in graduate and undergraduate programs and take on administrative roles commensurate with the position. You will be a current or aspiring leader in international-quality research, with publications in high quality journals and conferences, and

capacity to mentor research students and secure independent external grant and industry funding to support a program of research.

Active collaboration with others across the University of Melbourne is strongly encouraged, particularly via the Melbourne Energy Institute, as is collaboration with industry and government agencies.

These strategic appointments complement and build on The University of Melbourne's multidisciplinary expertise and industry partnerships in energy research, which is at the forefront of Australian research activities with international standing.

## **1. Key Responsibilities**

### **1.1 TEACHING AND LEARNING**

- Coordinate and conduct lectures and tutorials at undergraduate and postgraduate level, including engagement in teaching innovation and improvement;
- Preparation of project work to support student learning;
- Perform marking and assessment duties and be responsible for supervision of project marking in subjects as lecturer-in-charge;
- Provide adequate access for and effective student consultation;
- Be proactive in the development of subject materials and delivery, including the use of web resources as appropriate;
- Contribute to the continued improvement of teaching quality.

### **1.2 RESEARCH AND RESEARCH TRAINING**

- Provide a significant degree of scholarly research initiative and collaboration in the specific discipline;
- Exercise leadership in scholarly research, in conjunction with other colleagues;
- Present of research workshops and seminars within the department;
- Publish papers in reputable international journals and conferences;
- Attainment of external research grant income both from national competitive grants as well as from industry engagement;
- Participate as a chief investigator on research projects;
- Supervise undergraduate, graduate or postgraduate students engaged in coursework or smaller research projects; and

### **1.3 ENGAGEMENT**

- Build and foster partnerships with industry, government, collaborators at other Universities and other stakeholders that contribute to the engagement of teaching and research in the wider community engagement;
- Actively participate in professional activities including consulting, workshops, meetings of professional societies and short courses for external participants;
- Undertake knowledge transfer and community engagement activities beyond the University where appropriate.

#### 1.4 LEADERSHIP AND SERVICE

- Participation in and leadership of industry and community liaison and partnership activities;

Perform other tasks as requested by the supervisor or the Head of the Department.

## 2. Selection Criteria

#### 2.1 ESSENTIAL

- A PhD in electrical power systems
- Demonstrated ability to perform independent research evidenced through a track record of publications in high-impact peer-reviewed and refereed journals,
- Evidence of a significant role within a research team with excellent ability to develop, seek funding for and manage collaborative projects and research activities relevant to industry, involving the management of personnel, timelines and budgets, and relationships with various stakeholders;
- Demonstrated commitment to interdisciplinary research;
- Capacity to teach effectively and develop educational programs and methods across a range of subjects, in particular in the specific field, including the capacity to develop and deliver seminars and lectures and contribute to other teaching activities;
- Excellent oral and written communication skills, including the ability to interact with University staff at all levels and to build networks with industry and other researchers, both local and international;

#### 2.2 ADDITIONAL ESSENTIAL CRITERIA FOR APPOINTMENT AT LEVEL C

At Senior Lecturer Level C, the successful applicant must demonstrate all of the above, and additionally must demonstrate:

- Evidence of a significant leadership role in a research team
- Building an international reputation evidenced through research activities with impact in the energy domain.
- Capacity to develop an industry-based funding profile

#### 2.3 DESIRABLE

- Evidence of leadership in engagement with the relevant industry; and
- Evidence of a significant industry-based funding profile.

#### 2.4 SPECIAL REQUIREMENTS OF THE ROLE

- These positions require the incumbent to hold a current and valid Working with Children Check.
- Occasional work out of ordinary hours, travel.

### ***3. 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 Advancing Melbourne strategy that addresses 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 as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

### ***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***

### **5.1 DEPARTMENT OF MECHANICAL ENGINEERING**

The Department of Mechanical Engineering is one of the largest in Australia. It 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 Departmental philosophy is to attract and retain the highest quality staff available in order to maintain a vigorous research effort. Our strategic plan is to address the most urgent contemporary problems of our rapidly developing industrial society, with investigations into biomechanical engineering, fluid mechanics and thermal sciences.

Further information about the Department is available at [www.mech.unimelb.edu.au](http://www.mech.unimelb.edu.au)

### **5.2 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 and the postgraduate coursework Masters of Electrical Engineering. The Department also contributes to the Electrical Engineering Systems major in the Bachelor of Science.

Further information about the Department is available at <https://electrical.eng.unimelb.edu.au/>

### 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 School's 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 MELBOURNE ENERGY INSTITUTE

The Melbourne Energy Institute (MEI) delivers influential, interdisciplinary research on the transition to a clean energy system. We work with the community, industry and government on some of the world's most pressing energy challenges. These positions are at the core of the MEI 2023 Strategic Plan – Mission Zero in order to build critical mass in a teaching and research capability able to deliver the technologies and workforce for Australia's energy challenges.

<https://energy.unimelb.edu.au>

### 5.5 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding

performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

## 5.6 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.
- We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.
- We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.
- We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes; place, community, education, discovery and global.

## 5.7 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 <https://about.unimelb.edu.au/strategy/governance>