



Position description

Associate Professor, Electrical and Computer Systems Engineering

Department/Unit	Electrical and Computer Systems Engineering
Faculty	Engineering
Classification	Level D
Work location	Clayton campus
Date document created or updated	7 June 2017

Organisational context

Monash is a university of transformation, progress and optimism. Our people are our most valued asset, with our academics among the best in the world and our professional staff revolutionising the way we operate as an organisation. For more information about our University and our exciting future, please visit www.monash.edu

The **Faculty of Engineering** is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong applications orientation. To learn more about the Faculty of Engineering, please visit our website - <http://www.eng.monash.edu.au/>

The **Department of Electrical and Computer Systems Engineering** aims to provide high quality programs for undergraduate and research students as well as undertaking and publishing high quality research. We offer internationally recognised undergraduate and research programs in telecommunications, electronics, robotics, biomedical engineering and electrical power systems. We maintain strong links with engineering professionals to ensure our programs remain at the leading edge of professional practice. We have a vibrant research culture such as biomedical engineering (including the bionic eye project), communications, plasmonics, electronics, nanoptics, photonics and quantum electrodynamics, computing and robotics and signal processing. For more information about us, please visit our website - <http://www.eng.monash.edu.au/ecse/>

Position purpose

The Associate Professor, Electrical and Computer Systems Engineering will make a key contribution to the running of the department, faculty and University. The appointee will teach and conduct research in the field of power electrical engineering with a focus on power systems. This includes (but is not limited to) the following fields: smart grids and smart meters, power systems design, stability and analysis, large-scale microrgrids, distribution systems software, large-scale utility level energy storage, extreme events and grid resiliency, distributed generation and grid integration and reliability in modern power systems. The position

is a key role for the research and teaching portfolio and will be expected to provide expertise and knowledge aligned with the objectives and principles of the department.

Reporting Line: The position will report to the head of department under broad supervision

Supervisory responsibilities: No direct reports however the incumbent will supervise postgraduate/PhD research students

Financial delegation and/or budget responsibilities: Not applicable

Key responsibilities

1. The preparation and delivery of lectures, tutorials, practical classes, demonstrations, workshops, and clinical sessions
2. Initiation and development of course materials
3. Course coordination including offering guidance to assistant lecturers and supervision of sessional staff in teaching unit/s if required
4. Consultation with students and supervision of PhD, honours and postgraduate students
5. Preparation and assessment of student assignments and examinations
6. Conduct of original research that will lead to publications in refereed journals or with high level academic or commercial publishers and attract external and government funding
7. Significant role in research project including, where appropriate, leadership of a research team
8. Significant contribution to the profession and/or discipline both nationally and internationally

Key selection criteria

Education/Qualifications

1. PhD in Electrical Engineering or similar discipline

Knowledge and Skills

2. A strong publication record in high-quality journals or equivalent
3. Successful track record in obtaining external research grants
4. Record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs
5. Demonstrated excellence in teaching in the relevant discipline area (i.e. through evaluations, innovation in presentation and through curriculum development)
6. Demonstrated ability to mentor staff and students
7. High level of interpersonal skills and a proven ability to establish good working relationships with colleagues, students and members of community and professional bodies
8. Demonstrated leadership in committees and other administrative work and portfolios
9. Proven ability to promote the discipline internally within the university as well as externally both nationally and internationally

Other job related information

Travel (e.g. to other campuses of the University) may be required

Legal compliance

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationship