

POSITION DESCRIPTION



Associate Professor in Electronic Engineering



POSITION DETAILS

Position Title	Associate Professor in Electronic Engineering
Classification	Level D
Position Number	NEW
School/Office	School of Engineering
Division	Provost

POSITION PURPOSE

With the appointment of a Level D (Associate Professor) we are looking to support the interdisciplinary and innovative objectives of the School, through industry-partnered research and fostering interdisciplinary collaborations across the Faculty, the school and with other parts of the university. We value a solutions-focused research orientation, as well as industry experience, a distinguished track record of research demonstrated by publications in high impact journals, and successful grant applications. More specifically, the Associate Professor is responsible for providing original, innovative and distinguished contributions to the School's programs for maintaining and advancing their scholarly, research and/or professional capabilities relevant to this discipline at a national and international level

This position is also set to achieve significant contribution to teaching and learning in the relevant discipline as well as to the planning and strategic direction of the School. This is achieved by aiming to the constant improvements of learning outcomes for students, development of new and relevant curriculum and by taking on appropriate academic leadership roles including participation in various committees and contributing actively to the governance processes and outreach activities of the School and University.

KEY ACCOUNTABILITIES

1. Leadership and Governance

- Contribute to relevant governance roles within the Faculty and professional bodies, including the development and maintenance of effective working relationships with relevant external partners.
- Develop initiatives to enhance the research capacity of the School of Engineering
- Participate as requested on senior committees within the School of Engineering and the Faculty.

2. Research and Supervision

- Have national standing in an area of Electronic Engineering, preferably in Semiconductors (microelectronics) research that complements the research strengths of the School.
- Publish quality papers in high-impact journals to meet targets established in consultation with the Dean.
- Prepare and submit research grant proposals to external agencies that lead to sustainable research funding.
- Provide research leadership by actively participating in research, mentoring early and mid-career researchers and contributing to development of a research culture within the university and the School.
Provide leadership in identifying research opportunities for Electronic Engineering and Semiconductors researchers at all levels of development.

3. Teaching and Learning

- Develop/ contribute to education programs in Electrical/Electronic Engineering and Semiconductors.
- Provide leadership in the ongoing development of undergraduate and/or postgraduate courses in the Faculty.
- Participate in undergraduate and postgraduate teaching and enhance the interactions between undergraduate teaching and research to facilitate the transition of undergraduate students to honours and postgraduate study.
Attract, supervise and mentor Honours and postgraduate research students and ensure that they complete their programs in a timely manner and publish the outcomes in peer reviewed journals.

4. Curriculum Development

- Ensure that the design, development, delivery, and assessment of programs and subjects, and the learning resources associated with these, are contemporary.
A demonstrated track record of curriculum development in microelectronics, Electronics Engineering (including semiconductor design and fabrication)

5. Communication

- Develop sustainable relationships with practitioners and related industries in order to create job opportunities for graduates.
Facilitate and maintain good communication with staff and students.

6. Administration

- Actively pursue personal and professional development and provide opportunities for mentoring and development of junior staff.
Effective interpersonal/negotiation skills and capacity to work effectively with other academic and administrative staff, individually and as a leader or member of a team.

7. Undertake other duties as directed

- Other duties relevant to the classification level.

QUALIFICATIONS, EXPERIENCE AND SKILLS

1. PhD in Electronic Engineering or closely related discipline.
2. Demonstrated outstanding scholarly and professional achievement in Electrical/Electronic Engineering (including but not limited to semiconductor technology) with national or international standing in an area of research that complement the research strengths of the School and the demonstrated ability to attract competitive research funding particularly in the area of semiconductor fabrication, processing at the edge and microelectronics.
3. Demonstrated skills in leading a team and collaborating effectively with senior school management and other members of the multi-disciplinary team to develop a program of Electrical/Electronic Engineering research and translate research findings into practice.
4. Experience supervising research students.

5. Extensive demonstrated ability to teach into related discipline areas such as Electronics (digital and/or analogue), semiconductor devices, control systems, mechatronics as well as Power Electronics.

KEY RELATIONSHIPS

This position reports to the Head of Discipline, (Electrical and Electronics).

Success in the role will be dependent on developing and maintaining positive relationships with:

- Dean and Director for Learning and Teaching in the School
- Head of Discipline and Program Leads
- Discipline/Professional Field Leaders
- Academic colleagues in the discipline group, School and University
- Professional and support colleagues within the Faculty and University
- Casual Academics
- Industry and community Partners
- Regulatory Bodies
- Undergraduate and Postgraduate Students

CHALLENGES

The successful applicant will complement the current research and teaching of Electrical Engineering establishing a teaching and research program in microelectronics, processing at the edge, microelectronics (including semiconductor fabrication); key challenges are:

- Navigating competing priorities across multiple stakeholder groups while maintaining service quality.
- Responding to evolving student needs and expectations in a hybrid learning environment.
- Ensuring compliance with complex and changing regulatory frameworks.
- Driving innovation in service delivery within constrained budgets and resources.
- Bridge the gap between Engineering disciplines
- Work towards the continued growth of the current Electrical and Electronics research programs i.e. Biomedical Engineering, Digital signal processing as well as Power Electronics and Industrial Engineering

UNIVERSITY EXPECTATIONS

Ensure you are aware of and comply with legislation and University policies and procedures relevant to the duties undertaken including, but not limited to:

- Code of Conduct;
 - Work Health and Safety and Wellbeing Management System;
 - Western Sydney University Academic Staff Agreement 2022;
- Anti-Discrimination principles, Equal Employment Opportunity and staff and student equity

Approved by:

Date: