

Position Description

Associate Professor, Electronics Engineering

Position No:	TBA
Business Unit:	Provost
Division:	School of Computing, Engineering and Mathematical Sciences
Department:	Engineering
Classification Level:	Level D (Teaching & Research)
Employment Type:	Full-Time, Continuing
Campus Location:	Melbourne (Bundoora)
Other Benefits:	http://www.latrobe.edu.au/jobs/working/benefits

Further information about:

La Trobe University - <http://www.latrobe.edu.au/about>

Position Context/Purpose

This position is located in the Department of Engineering, part of the School of Computing, Engineering and Mathematical Sciences in Melbourne (Bundoora) campus. The school has three departments: Computer Science and Information Technology, Engineering, and Mathematical and Physical Sciences on both Melbourne (Bundoora) and Bendigo campuses. The school hosts three Research Centres: the Centre for Technology Infusion (CTI), the CISCO Latrobe Centre for Artificial Intelligence and Internet of Things, and the Centre for Materials and Surface Science, and one Research Node: the Cybersecurity Innovation Node. The school has a reputation for innovative course design, the maintenance of a supportive student-centered learning environment and an outstanding research profile. The school offers a range of general and specialist undergraduate and postgraduate courses that are rigorous, attuned to emerging trends and taught by staff at the forefront of their fields.

The Engineering department at La Trobe continues to expand and revitalise its programs with an innovative curriculum that incorporates strong industry engagement. The department leads various industry sponsored multi-disciplinary research projects with national and international linkages.

Please note: The University may require this role to work at both the Bundoora and Bendigo campuses.

Duties at this level will include:

- Develop, teach, and coordinate subjects and courses that engage and motivate students whilst providing a high-quality learning experience.
- Lead the incorporation of advanced Industry 4.0 technologies into existing and new curriculum, including IoT, robotics and automation, AI, machine learning, and cyber-physical systems.
- Collaborate with staff from different departments to create and co-teach courses that emphasise the interconnectedness of disciplines in solving real-world Industry 4.0 challenges.
- Ensure that all programs and courses meet the highest standards of quality and are in compliance with national and international accreditation bodies.
- Provide academic advising and mentoring to undergraduate and postgraduate students, helping them navigate their academic and career paths in the field of Industry 4.0.
- Make a leading/national contribution to scholarship of learning and teaching and disciplinary teaching pedagogy and research.
- Conduct and lead outstanding innovative and high impact research and produce conference and seminar papers and publications arising from the research.
- Supervise Higher Degree by Research (HDR) and major Honours or postgraduate research projects.
- Obtain necessary research funding from contracts/grants/consultancies.
- Initiate and participate in interdisciplinary research projects that involve multiple departments, focusing on the application of automation and digitalisation in various sectors such as manufacturing, healthcare, and smart cities.
- Collaborate on global research initiatives to address complex challenges in automation, digitalisation, and smart manufacturing, enhancing the university research profile on an international scale.
- Promote and represent the University and discipline/profession by participating in appropriate local, national and international organisations and events.

- Develop and enable the capability of staff within the work area by monitoring and continuously managing their performance and mentoring them to better meet current and future role requirements. In doing this, provide staff with constructive feedback and support for high quality performance contributions.
- Undertake other duties commensurate with the classification and scope of the position as required by the Head of Department or Dean.

Essential Criteria

Skills and knowledge required for the position

- Completion of a PhD or equivalent accreditation and standing recognised by the University/profession as appropriate for the relevant discipline areas.
- Deep understanding of key Industry 4.0 technologies such as artificial intelligence, machine learning, the Internet of Things (IoT), robotics, big data analytics, and cyber-physical systems.
- Demonstrated effectiveness and leadership in curriculum development and teaching with a proven commitment to excellence in teaching.
- Ability to implement and advocate for innovative teaching methods, including project-based learning, flipped classrooms, and the use of advanced digital tools to enhance student engagement and learning outcomes.
- Demonstrated capability to work across disciplines, creating integrated learning experiences that draw on multiple fields of study and preparing students for the interdisciplinary nature of Industry 4.0.
- Proven ability to lead and manage change within an academic environment, including implementing new technologies and methodologies to improve educational outcomes.
- Evidence of effective contributions to leadership and management at the Department, School, or University level.
- Proven experience and success in managing staff performance and development.
- Strong record of publications, including papers in leading international journals and/or invited presentations at international conferences.
- Successful record of external research funding through grants/contracts/consultancies.
- Experience in fostering an entrepreneurial mindset among students and staff, encouraging innovation, start-up development, and commercialisation of research outcomes.
- Understanding of global trends and challenges in Industry 4.0, with the ability to incorporate an international perspective into teaching and research, and to build global networks and collaborations.
- Excellent verbal and written communication skills, including the ability to interact effectively with people from a diverse range of backgrounds.
- Proven ability to build sustainable relationships with a range of industry partners and evidence of the ability to promote research links with outside organizations/agencies.
- Demonstrated ability to work collaboratively and productively with staff and students from a diverse range of backgrounds.

Capabilities required to be successful in the position

- Demonstrated commitment to reflective practice and self-development, identifying and challenging own biases, responding to others with empathy and evaluating the way own behaviour impacts team culture and performance.
- Ability to work collaboratively across functions, tailor communication in a way that is meaningful to the audience and contribute to a safe, inclusive, high-performing culture – consistently modelling accountability, connectedness, innovation and care.
- Demonstrated creative, critical and systems thinking – generating ideas and recommending solutions to local and organisational problems.
- Ability to operationalise strategy, adapt quickly to disruption and actively contribute to a healthy team culture to successfully navigate change – implementing improvements to local and organisational practice.

Essential Compliance Requirements

To hold this La Trobe University position the occupant must:

- hold, or be willing to undertake and pass, a Victorian Working With Children Check; AND
- take personal accountability to comply with all University policies, procedures and legislative or regulatory obligations; including but not limited to TEQSA and the Higher Education Threshold Standards.

Other Information

The position description is indicative of the initial expectation of the role and subject to changes to University goals and priorities, activities or focus of the job.

Position Flexibility

We offer flexible work arrangements that can assist you in balancing your work and other responsibilities.

Why La Trobe:

- Develop your career at an innovative, global university where you'll collaborate with community and industry to create impact.
- Enjoy working on our inspiring and stunning campuses – the perfect hub for industry, students and academics
- Help transform the lives of students, partners and communities now and in the future

This is more than just a job. Working at La Trobe offers opportunities to demonstrate excellence and transform lives.

Here, you'll join exceptional people, partners and communities, who power our operations with ambition and purpose.

Our success can be attributed to its strong sense of community. We have a long-standing commitment to diversity, inclusion and social justice; we are committed to providing a workplace where all staff feel valued, respected and supported to achieve their full potential. We strive to build a workplace where all employees of diverse backgrounds, abilities, experiences, sexuality, gender, religion and age are welcome, valued, respected and one that is representative of our community.

We demonstrate our cultural qualities by holding ourselves accountable and creating a culture of trust and innovation while genuinely caring for one another.

La Trobe's Cultural Qualities:

**WE ARE
CONNECTED**



We are **connected** to each other and the communities around us. We engage with those communities to learn from our past, inform our present and impact our future.

**WE ARE
INNOVATIVE**



We are **innovative** in tackling the most important issues of our time. We are inquisitive and seek to develop new ideas that positively impact the way we work and the world around us.

**WE ARE
ACCOUNTABLE**



We are **accountable** for what we do and share a commitment to excellence. We are courageous and respectful in the way we hold ourselves and each other to account.

**WE
CARE**



We **care** about what we do and value the power of education and research. We care about each other and strive to create a safe and inclusive community.

For Human Resource Use Only

Initials: Date: