Position Description

PURPOSE STATEMENT:
The ANU College of Engineering and Computer Science (CECS) has embarked on a major initiative to reimagine the role of engineering and computing in the 21st century. As outlined in the CECS Strategic Intent the College has a unique set of national responsibilities and an obligation to have a degree of impact befitting Australia’s only national university.

KEY ACCOUNTABILITY AREAS:
The ANU College of Engineering and Computer Science is an interdisciplinary venture, with the aim of housing the very best and brightest from around the world to find and solve problems—not just engineers or computer scientists, but also the brightest minds both from industry and other academic disciplines, with varied backgrounds and areas of expertise. We will reimagine the traditional engineering and computing disciplines.

We believe the responsibility of engineering and computing in the 21st century is to bring together expertise on people, technological systems, and science to put technology at the service of creating a more sustainable, responsible and safe world. The School of Engineering is a new organisation, springing from foundations in systems, information, and renewable energy engineering at the ANU.

It is a leading centre for research in renewable energy and related technologies, systems, control, and signal processing. Coupled with focussed growth in aerospace and environmental systems, there is a critical need to design, drive and sustain a fundamental program of strategic multi-disciplinary activities that will launch the new school. This is an opportunity to establish an innovative and forward-looking intellectual agenda, built on a diverse, inclusive culture.

The School of Engineering will initially have defined four broad focus areas, or activity clusters: Aerospace Engineering, Electrical Engineering, Environmental Engineering, and Mechatronics Engineering. Each cluster will have an Academic Lead who is responsible for shaping the education, research and engagement activities in their cluster. This structure will allow for the concentration of resources and activities to increase potential for meaningful impact.

The Battery Storage and Grid Integration Program sits within the School and is looking at ways to transform how renewable energy, energy storage, and electric vehicles are integrated into the electricity grid.

The purpose of this appointment is to:
1. Support the establishment of innovative, interdisciplinary, outwardly focused programs blending education, research and engagement;
2. Support the development of partnerships with industry and engage with the wider research community to embed progressive engineering and computing research and education capabilities;
3. Contribute to development of state-of-the-art, unique programs that are globally relevant to equip our students with diverse and multidisciplinary skills.
4. Contribute to the objectives and projects of the Battery Storage and Grid Integration Program

Position Dimension & Relationships:
The academic will be a member of the Battery Storage and Grid Integration Program within the School of Engineering, accountable to the Head of the Battery Storage and Grid Integration Program and to the School Director, and (as relevant) will be responsible for relationships with industry, government and other academic and professional staff across the University. As
an academic, the role involves educational activities, outward-facing engagement and outreach, innovative and distinctive research, and commitment to organizational culture. The staff member is expected to contribute cooperatively to the overall intellectual life of the School, College and University.

Role Statement:

Specific duties required of a Level B Academic may include:

1. Undertake independent research related to the social impacts of neighbourhood batteries, community engagement in neighbourhood battery design, and emerging governance issues associated with implementing neighbourhood batteries, with a view to publishing original and innovative results in refereed journals, present research at academic seminars and at national and international conferences, and collaborate with other researchers at a national and/or international level.

2. Undertake high impact collaborative and cross-disciplinary research that generates creative works and a body of unique intellectual knowledge as relevant to the Program, School, and College.

3. Contribute to the educational activities of the Program and School. This includes, but is not limited to, the preparation and delivery of lectures, tutorials, short courses and workshops; the preparation and delivery of professional and executive education courses; the preparation of online material; marking and assessment; and consultations with students. This also includes, but is not limited to, supervision of research students and coursework students working on individual or group projects at undergraduate, honours, and graduate levels.

4. Take an active role in seeking and generating resources to support the development of deep and transformational expertise in fields relevant to the Program, School and College. Achieve impact through engagement with a range of stakeholders and/or funding bodies and also through the preparation of research proposals.

5. Provide support to the engagement and impact activities of the School, with the aim to engage and activate a stakeholder community in academia/industry/start-ups/government/broader community, including communicating or publishing original, innovative and multi-disciplinary results in international refereed journals, academic seminars, national and international conferences, or appropriate fora for the field, and collaborate with other researchers at an international level. Also, assisting in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.

6. Supervise less-senior academic and research staff, as appropriate.

7. Maintain high academic standards and collegiality in all education, research, impact, engagement and administration endeavours of the School, College, and University.

8. Contribute broadly to all aspects of the operation of the School, College and University.

9. Take responsibility for workplace health and safety and not wilfully place at risk the health and safety of another person in the workplace.

10. Other duties as required consistent with the classification level of the position

Comply with all ANU policies and procedures, and in particular those relating to work health and safety and equal opportunity

See the classification descriptors for general staff and minimum standards for academic staff

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1Schedule 5 - General staff classification descriptors - Human Resources - ANU
2Schedule 4 - Human Resources - ANU
SELECTION CRITERIA:
The breadth and depth of this role are illustrated in the following selection criteria. While candidates should ideally meet all selection criteria, the School of Engineering will consider all applications that demonstrate alignment with its mission.

1. A PhD in a social science discipline (e.g. sociology, anthropology, politics), with a track record of independent research on questions relating to the design and governance of emerging technologies, preferably in the energy domain, evidenced by publications in peer-reviewed journals and conferences, a record of developing and maintaining collaborations and by other measures such as awards, and invitations to present at conferences.

2. A demonstrated interest in the governance of energy transitions e.g. experience working with communities of energy users, or industry groups and an understanding of the governance landscape of implementing energy developments.

3. Experience in research, industry or policy development in areas related to energy users (or communities affected by energy developments), battery storage, and energy change. Please provide evidence of publications in peer-reviewed journals and conferences, a record of developing and maintaining collaborations and by other measures such as awards, invitations to give talks at leading conferences etc.

4. Evidence of the ability to articulate and carry out innovative research in the field of energy change governance and a vision for the activities to be undertaken at the ANU.

5. Evidence of effective teaching, training, facilitation, mentoring or other relevant knowledge transmission activities and of the ability to contribute significantly to delivery of the educational agenda in the Activity Cluster and School.

6. A demonstrated alignment with the School's culture and work environment including a commitment to enhancing diversity and inclusion, characterised by an orientation to collaborative research; team-based projects; interdisciplinary activities and interests; strategic decision making; commitment to the success of peers and the team; and an ability to contribute to the strategic priorities and activities of the School and College.

7. An ability and commitment to win bids for competitive external funding to support individual and collaborative research, education and engagement activities with the Program and School.

8. Excellent communication skills with the ability to inspire a wide range of audiences, including in cross-disciplinary areas and to foster respectful and productive working relationships with staff, students and colleagues at all levels. Skills in other forms of communication (such as visual communication, podcasting, video, etc.) or a willingness to innovate in these areas will be well regarded.

9. A demonstrated high-level understanding of equal opportunity principles and a commitment to the application of these policies in a University context.

Consistent with their relative opportunity to do so, a Level B Academic will have a relevant doctoral qualification or equivalent accreditation and standing together with subsequent research (or R&D) experience. This may not apply to candidates coming from different fields such as industry or government. Once in the role, there will be an expectation of academic excellence, making an outstanding contribution to research and, in this particular position, the ability to collaborate with internal and external stakeholders outside of your domain. A position at this level will require a demonstrated record of research output in academia, industry or government.

The ANU conducts background checks on potential employees, and employment in this position is conditional on satisfactory results in accordance with the Background Checking Procedure which sets out the types of checks required by each type of position.