



Position Description

College/Division:	College of Engineering and Computing and Cybernetics (CECC)
Faculty/School/Centre:	School of Engineering
Position Title:	Postdoctoral Fellow/Research Fellow
Classification:	Academic Level B
Position No:	14256
Responsible to:	Valeska Ting
Number of positions that report to this role:	1
Delegation(s) Assigned:	D8

PURPOSE STATEMENT:

The ANU College of Engineering, Computing and Cybernetics (CECC) is dedicated to contributing to The Australian National University's reputation for excellence in research and research-led education, bringing together expertise across a range of areas to reimagine the role of engineering and computing for future generations.

CECC is a diverse and exceptional community of students, educators, scholars and researchers who embrace the breadth of the computing and engineering professions. We want our people to engage in ground-breaking, cutting-edge research to solve "wicked problems" of the 21st century in collaboration with the best minds in the world from across a broad range of disciplines. Through modern, unique programmes we encourage our students to build a diverse, multidisciplinary skill set that will prepare our graduates to successfully make their future mark in the world. At its core, we will equip our people to ask the right kind of questions from a people-centric, technological and scientific perspective.

Our focus on excellence is more than an aspiration; it is embedded in our performance expectations for Academic staff within the College, through our Academic Performance Standards. These standards are an integral component of our vision to reimagine Engineering and Computer Science research and education, and to continue to propel us on our trajectory of becoming a world-class institution in this space.

School of Engineering

The School of Engineering is a creative mix of staff and students that embrace the breadth of engineering professions from materials and manufacturing, to robotics, telecommunications and systems, and control of massively complex networks.

All Academic staff within the College are expected to undertake work in all three areas of academic activity; research, education and service (including outreach). The allocation of time to each area will be discussed with the position supervisor annually and be reflective of the conditions of the funding, the appointees research agenda, School and interdisciplinary teaching requirements and leadership opportunities within the School environment. The Research Fellow may also be required to supervise or mentor less senior staff, and undertake leadership roles as applicable. The staff member will contribute cooperatively to the overall intellectual life of the School, College and University.

KEY ACCOUNTABILITY AREAS:

Position Dimension & Relationships:

The Research Fellow will be a member of the School of Engineering within one of the four activity clusters, accountable to the Activity Cluster Lead 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 innovative and distinctive research, educational activities, outward-facing engagement and outreach, 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:Academic Level B

Specific duties required of a **Level B Academic** may include:

- Undertake high impact collaborative and cross-disciplinary research that generates creative works and a body of unique intellectual knowledge as relevant to the Activity Cluster, School, and College.
- Contribute to the educational activities of the Activity Cluster and School. 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.
- Take an active role in seeking and generating resources to support the development of deep and transformational expertise in fields relevant to the Activity Cluster, School and College. Achieve impact through engagement with a range of stakeholders and / or funding bodies and also through the preparation of research proposals.
- 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.
- Supervise less-senior academic and research staff, as appropriate.
- Maintain high academic standards and collegiality in all education, research, impact, engagement and administration endeavours of the School, College, and University.
- Contribute broadly to all aspects of the operation of the School, College and University.
- Take responsibility for workplace health and safety and not wilfully place at risk the health and safety of another person in the workplace.
- 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

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.

Academic Level B:

1. A PhD or equivalent in materials science or engineering, or a related area as relevant to the School, with a competitive track record of either impact or research as evidenced by appropriate outputs and measures of esteem in industry, government or academic environments.
2. Experience in the synthesis, characterisation and testing of hydrogen storage materials and/or systems
3. An ability to contribute to impact and engagement activities involving government, industry, the wider research community and the general public, including involvement in collaborations and partnerships with a range of internal and external stakeholders.
4. Evidence of an ability to conduct work safely and comply within the University's Work Health and Safety guidelines.
5. 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.
6. Evidence of effective collaboration, team-based projects and interdisciplinary activities and interests. In particular, evidence of ability and experience in effectively establishing on-going support for industry-academia engagement, collaboration and partnerships.
7. 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.

8. Ability to mentor and develop colleagues to achieve goals in alignment with the College's strategic priorities, particularly in relation to building a diverse and inclusive community life.
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.

Supervisor/Delegate Name:	Valeska Ting	Date:	10/9/24
----------------------------------	--------------	--------------	---------

References:

[CECS Strategic Intent](#)

[Academic Minimum Standards](#)



Pre-Employment Work Environment Report

Position Details

College/Div/Centre	College of Engineering and Computing and Cybernetics	Dept/School/Section	School of Engineering
Position Title	Research Fellow	Classification	Level B
Position No.	14256	Reference No.	

In accordance with the Work Health and Safety Act 2011 (Cth) the University has a primary duty of care, so far as reasonably practicable, to ensure the health and safety of all staff while they are at work in the University.

- This form must be completed by the supervisor of the advertised position and appended to the back of the Position Description.
- This form is used to advise potential applicants of work environment and health and safety hazards prior to application.
- Once an applicant has been selected for the position they must familiarise themselves with the University WHS Management System via Handbook guidance <https://services.anu.edu.au/human-resources/health-safety/whs-management-system-handbook>
- The hazards identified below are of generic nature in relation to the position. It is not correlated directly to training required for the specific staff to be engaged. Identification of individual WHS training needs must be in accordance with WHS Local Training Plan and through the WHS induction programs and Performance Development Review Process.
- 'Regular' hazards identified below must be listed as 'Essential' in the Selection Criteria - see 'Employment Medical Procedures' at http://info.anu.edu.au/Policies/_DHR/Procedures/Employment_Medical_Procedures.asp

Potential Hazards

<ul style="list-style-type: none"> • Please indicate whether the duties associated with appointment will result in exposure to any of the following potential hazards, either as a regular or occasional part of the duties. 					
TASK	regular	occasional	TASK	regular	occasional
key boarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	laboratory work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
lifting, manual handling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	work at heights	<input type="checkbox"/>	<input type="checkbox"/>
repetitive manual tasks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	work in confined spaces	<input type="checkbox"/>	<input type="checkbox"/>
Organizing events	<input type="checkbox"/>	<input type="checkbox"/>	noise / vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>
fieldwork & travel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	electricity	<input checked="" type="checkbox"/>	<input type="checkbox"/>
driving a vehicle	<input type="checkbox"/>	<input type="checkbox"/>			
NON-IONIZING RADIATION			IONIZING RADIATION		
solar	<input type="checkbox"/>	<input checked="" type="checkbox"/>	gamma, x-rays	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ultraviolet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	beta particles	<input type="checkbox"/>	<input type="checkbox"/>
infra red	<input type="checkbox"/>	<input checked="" type="checkbox"/>	nuclear particles	<input type="checkbox"/>	<input type="checkbox"/>
laser	<input type="checkbox"/>	<input type="checkbox"/>			
radio frequency	<input type="checkbox"/>	<input type="checkbox"/>			
CHEMICALS			BIOLOGICAL MATERIALS		
hazardous substances	<input type="checkbox"/>	<input checked="" type="checkbox"/>	microbiological materials	<input type="checkbox"/>	<input type="checkbox"/>
allergens	<input type="checkbox"/>	<input type="checkbox"/>	potential biological allergens	<input type="checkbox"/>	<input type="checkbox"/>
cytotoxics	<input type="checkbox"/>	<input type="checkbox"/>	laboratory animals or insects	<input type="checkbox"/>	<input type="checkbox"/>
mutagens/teratogens/ carcinogens	<input type="checkbox"/>	<input checked="" type="checkbox"/>	clinical specimens, including blood	<input type="checkbox"/>	<input type="checkbox"/>
pesticides / herbicides	<input type="checkbox"/>	<input checked="" type="checkbox"/>	genetically-manipulated specimens	<input type="checkbox"/>	<input type="checkbox"/>
			immunisations	<input type="checkbox"/>	<input type="checkbox"/>
OTHER POTENTIAL HAZARDS (please specify): Cryogenic liquids (e.g. liquid nitrogen), flammable materials (e.g. hydrogen)					
Supervisor/Delegate:		<i>Prof Valeska Ting</i>		Date:	10/10/2024