



Position Description

College/Division:	College of Engineering & Computer Science
School/Centre:	Research School of Engineering
Department/Unit:	
Position Title:	Research Fellow
Classification:	Academic Level B
Position No:	
Responsible to:	

PURPOSE STATEMENT:

The ANU College of Engineering and Computer Science is dedicated to contributing to The Australian National University's reputation for excellence in research and research-led education. The College is at the leading edge within numerous fields, including logic, algorithms and data, signal processing, artificial intelligence, computer vision and robotics, computational mechanics, materials, fabrication, big software systems, renewable energy, networked systems and quantum cybernetics.

The Research School of Engineering brings together the best and brightest researchers, scholars and fosters a vibrant culture that prepares our students for a career in a field central to progress in nearly all aspects of life in the 21st century.

The purpose of these appointments is to

- Strengthen the Research School of Engineering as an international centre of excellence in solar energy; and
- Contribute to the objectives of an externally funded project

KEY ACCOUNTABILITY AREAS:

Position Dimension & Relationships:

The position is located within the Research School of Engineering, a close-knit research and teaching community, made up of high performing academic and professional staff, students and visitors sharing a deep commitment to transforming the future of engineering for the next generation. The appointee is accountable to the lead CI of the project funding their appointment and the Director of the Research School. The appointee will liaise with relevant professional and academics staff members within the Research School of Engineering and the ANU as well as establishing relationships with the wider research community.

Multiple positions are available, funded by external grants from the Australian Renewable Energy Agency (ARENA) and the Australian Research Council (ARC). While this grant continues the appointee will also be accountable to the lead CI on the grant.

As an academic member of the Research School of Engineering the appointee will be required to contribute to the overall intellectual life of the School, College and University. This includes contribution to research, education and outreach agendas of the School both nationally and internationally in a manner that is appropriate to the level of appointment and the project funding conditions.

In this specific position the appointee will also be required to take a leading role in the design, modelling, fabrication and characterization of novel perovskite solar cells and/or perovskite-silicon tandem devices. They will also be expected to carry out independent research toward the project objectives, and to support the broader activities of the perovskite research group.

Role Statement:

In their role as ANU academic level B in the Research School of Engineering the appointee will be expected to:

1. Undertake independent and team research into the design, simulation, materials science, fabrication and characterization of advanced perovskite solar cells to achieve the project objectives.
2. Promote the uptake of the project outcomes within the solar energy communities by publishing original and innovative results in refereed journals, presenting research at academic seminars and at national and international conferences, and collaborating with other researchers at a national and/or international level.
3. Actively seek and secure external funding including the preparation and submission of research proposals to external funding bodies.
4. Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Assist with supervision of research students.
5. Supervise less senior academic staff and research support staff in your research area.
6. Actively contribute to all aspects of the operation of the School.
7. Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.
8. Contribute to the teaching activities of the School as required.
9. Maintain high academic standards in all education, research and administration endeavours.
10. Take responsibility for their own workplace health and safety and not wilfully place at risk the health and safety of another person in the workplace.
11. Other duties as required consistent with the classification level of the position.

SELECTION CRITERIA:

1. A PhD in the physical or chemical sciences or engineering or a related area, with a track record of independent research in the field of perovskite solar cells or novel solar cell materials as evidenced by 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.
2. Evidence of the ability to articulate and prosecute innovative research in the field of perovskite solar cells with experience in the design, fabrication and characterisation of advanced solar cells or fabrication and characterisation of perovskite-related materials and a vision for the activities they will undertake at the ANU.
3. An ability and commitment to win bids for competitive external funding to support individual and collaborative research activities.
4. Ability and willingness to teach at all levels.
5. The ability to supervise and graduate high quality PhD/Masters research students
6. Excellent oral and written English language skills and a demonstrated ability to communicate and interact effectively with a variety of staff and students in a cross-disciplinary academic environment and to foster respectful and productive working relationships with staff, students and colleagues at all levels.
7. A demonstrated high-level understanding of equal opportunity principles and a commitment to the application of these policies in a University context.

Supervisor Signature:		Date:	18 December, 2017
Printed Name:	Thomas White	Uni ID:	4835361

References:

[General Staff Classification Descriptors](#)

[Academic Minimum Standards](#)

Pre-Employment Work Environment Report

Please note the Pre-Employment Work Environment Report form must be completed by the supervisor of the advertised position and provided electronically and separately, as it needs to be uploaded into ANU Recruit system and available for applicants to download when reviewing the position documentation. Without this form jobs cannot be advertised.

Position Details

College/Div/Centre	ANU College of Engineering and Computer Science	Dept/School/Section	Research School of Engineering
Position Title	Research Fellow	Classification	Level B
Position No.		Reference No.	

In accordance with the Occupational Health and Safety Act 1991 the University has a duty of care to provide a safe workplace for all staff.

- This form must be completed by the supervisor of the advertised position and forwarded with the job requisition to Appointments and Promotions Branch, Human Resources Division. Without this form jobs cannot be advertised.
- This form is used to advise potential applicants of work environment issues prior to application.
- Once an applicant has been selected for the position consideration should be given to their inclusion on the University's Health Surveillance Program where appropriate – see http://info.anu.edu.au/hr/OHS/Health_Surveillance_Program/index.asp
Enrolment on relevant OHS training courses should also be arranged – see http://info.anu.edu.au/hr/Training_and_Development/OHS_Training/index.asp
- '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

- 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 type="checkbox"/>	<input type="checkbox"/>	work at heights	<input type="checkbox"/>	<input type="checkbox"/>
repetitive manual tasks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	work in confined spaces	<input type="checkbox"/>	<input type="checkbox"/>
catering / food preparation	<input type="checkbox"/>	<input type="checkbox"/>	noise / vibration	<input type="checkbox"/>	<input type="checkbox"/>
fieldwork & travel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	electricity	<input type="checkbox"/>	<input type="checkbox"/>
driving a vehicle	<input type="checkbox"/>	<input type="checkbox"/>			
NON-IONIZING RADIATION			IONIZING RADIATION		
solar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	gamma, x-rays	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>			
radio frequency	<input type="checkbox"/>	<input type="checkbox"/>			
CHEMICALS			BIOLOGICAL MATERIALS		
hazardous substances	<input checked="" type="checkbox"/>	<input 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 checked="" 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 type="checkbox"/>	genetically-manipulated specimens	<input type="checkbox"/>	<input type="checkbox"/>
			immunisations	<input type="checkbox"/>	<input type="checkbox"/>

OTHER POTENTIAL HAZARDS (please specify):

Supervisor's Signature:		Print Name:	Thomas White	Date:	18/12/17
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