POSITION DESCRIPTION
Academic Positions
(In addition to the Position Classification Standards)

Position Title: Research Fellow / Senior Research Fellow Level: B/C

Faculty/Division: Australian Institute for Innovative Materials (AIIM)

Department/Location: ARC Centre of Excellence for Electromaterials Science (ACES)

Primary Purpose of the Position:

The SRF in Synthetic Energy Systems will bring expertise in novel energy storage and provide critical input into the challenging area of energy storage for bionics.

Position Environment:

You will be a member of ARC Centre of Excellence in Electromaterials Science (ACES) located within the lead node the Intelligent Polymer Research Institute at the University of Wollongong (UOW). ACES is composed of 6 Australian nodes: UOW, Deakin University, Monash University, University of Tasmania, Melbourne University and Australian National University and 5 international partner organisations: Dublin City University; University of Warwick; Friedrich Alexander University; Hanyang University and Yokohama National University.

The vision is to create the next generation of electrochemical devices via the precision assembly of nano-/micro-dimensional components into macroscopic structures to deliver unprecedented device performance. In doing so we will create the preeminent world centre for electromaterials science.

ACES is steered by Australian Laureate Fellows Wallace as Centre Director and Forsyth as Associate Director, and with the assistance of a group of inspirational researchers and expert guidance by eminent persons drawn from the science, business, academic and government communities. A Research Strategy Group (comprising the Centre Director, Associate Director and 6 Theme Leaders) will review strategic directions for each of the Theme areas on a quarterly basis.

Major Accountabilities/Responsibilities:

Responsibilities		Outcome	Office Use Only
1.	Designing and implementing an experimental research program related to ACES objectives either as a member of a team or, where appropriate, independently, in the area of energy conversion and storage for bionics	Reproducible, accurate and appropriate experimental data achieving targets or milestone outcomes in a timely manner.	
2.	Undertake development of protocols / facilities that can be implemented with energy storage for bionics	Protocols and facilities available and working for projects	
2.	Preparation of at least 4 number of scientific papers, conference presentations and other reports describing the results of the research program.	At least 4 papers published in ISI journals and conference presentations at national and international events.	
3.	Assistance with training students and supervision of student	Students working in the area of energy	

	projects.	for Bionics for ACES are properly supported.	
4.	Preparation of grants and other funding applications	Further funding obtained	
5.	Assistance with project management and administration, including preparation of reports, assisting with workshops, researcher, industry and public visits including preparation of newsletter/website items; laboratory demonstrations and maintenance of publications records	Proper functioning of the project and ACES objectives.	
6.	Where appropriate establish collaborative links to enhance development of the research further	Collaborative links established.	
7.	Supervisory roles: Communicate and consult with staff on workplace and staffing matters.	To foster direct relationships with staff and enhance engagement with the organisation.	Ongoing
8.	Observe principles and practices of Equal Employment Opportunity	To ensure fair treatment in the workplace	
9.	Have WH&S responsibilities, accountabilities and authorities as outlined in the http://staff.uow.edu.au/ohs/commitment/responsibilities/ document	To ensure a safe working environment for self & others.	

Inherent Requirements:

This position description outlines the major accountabilities/responsibilities and the selection criteria against which you will be assessed as suitable for the position. As such there will be specific job requirements that we refer to as Inherent Requirements.

Inherent Requirements refer to your ability to:

- Perform the essential duties and functional requirements of the job;
- Meet the productivity and quality requirements of the position;
- Work effectively in the team or other type of work organisation concerned; and
- Do the job without undue risk to your own or others health, safety and welfare at work.

If you have any injuries, illness, disorder, impairment, condition or incapacity that may affect your ability to perform the inherent requirements of the position, we encourage you to discuss this with the University to assist in the process of identifying reasonable adjustments to enable you to perform the duties of the position. The University wants to place you in the best situation to use your skills effectively in the position you are applying for at the University.

Reporting Relationships:

Position Reports to:	Professor Gordon Wallace
The position supervises the following positions:	PhD students as required
Other Key Contacts:	Prof Douglas MacFarlane, A/Prof Robert Kapsa, A/Prof Jeremy Crook

Key Relationships:

Contact/Organisation:	Purpose & Frequency of contact
Prof Gordon Wallace Director ACES	Monthly - progress technical reporting
Prof Douglas MacFarlane ACES Synthetic Energy Systems (SES) theme leader	As required-progress technical reports plus ACES group meetings
A/Prof Jeremy Crook ACES CI	Monthly - progress technical reporting
A/Prof Robert Kapsa ACES CI	As required - progress technical reporting
Dr Toni Campbell COO	Monthly for ACES reporting matters

Key Challenges:

1. Develop and implement R&D plans pertaining to materials synthesis; fabrication protocols and the development of facilities that can be implemented with energy storage for bionics.
2. Preparation of high quality journal papers.
3. Collaborating within a large team to progress results fast so research outcomes are in line with the expected outcomes.
4. Assist with training and development of the next generation researchers.

SELECTION CRITERIA - Knowledge & Skills:

Essential:

- Ability to work both independently and in a team environment.
- Highly developed written and verbal communication skills in English, as evidenced by both communication and consultation with staff on workplace matters and by peer-reviewed research publications and presentations at conferences.
- Demonstrated knowledge of OH&S regulations and procedures.
- Extensive knowledge of materials and energy systems for bionics.

Desirable:

- Knowledge of requirements for implantable materials.

SELECTION CRITERIA - Education & Experience:

Essential:

- PhD in relevant field such as Electrochemistry, Materials Science, Engineering.
- Extensive experience in area of energy storage /conversion.
- Experience training students and co-supervising student projects.
- Experience in report writing/manuscript/grant preparation.
- Demonstrated capacity to undertake collaborative research in multi-disciplinary team.
- Experience training students and co-supervising student projects.
- Strong publication track record relative to opportunity.
- Demonstrated ability to establish collaborative research links.

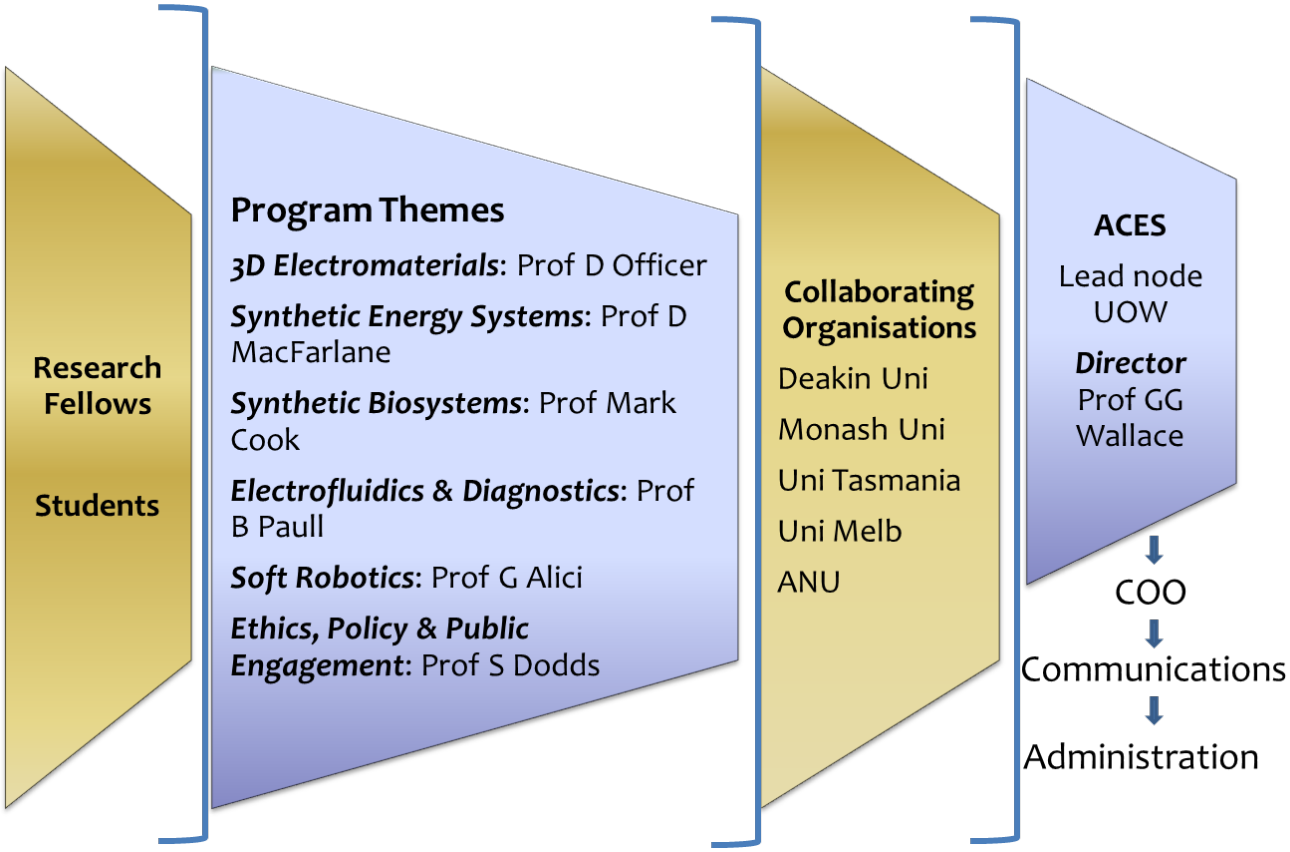
Personal Attributes:

- Work independently without constant supervision.
- Enthusiasm for research and team work.
- Willingness receive positive feedback and constructive criticism.
- Look for solutions, rather than merely presenting problems.
- Flexible approach to work assignments.
- Responsive to change.

Special Job Requirements:

- OH&S inductions to workplace and laboratory procedures. This person must adhere to safe laboratory practices of AIIM /IPRI.
- Preparation of and compliance with appropriate biosafety protocols in the facility.

Organisational Chart:



Approval:

Approved by Head of Unit: _____

Date: _____

Approved by Human Resources: _____

Date: _____

POSITION CLASSIFICATION STANDARD - Research Only
Level: B
Title: Fellow

Description

A position classification standard describes the broad categories of responsibility attached to research-only academic staff at different levels. The standards are not exhaustive of all tasks in research-only academic employment, which is by its nature multi-skilled and involves an overlap of duties between levels. The standards provide an adequate basis to differentiate between the various levels of employment and define the broad relationships between classifications.

Progression through an academic career will normally be based on research, teaching, administrative functions and contribution to the profession. The balance of functions will vary according to level and position over time. It is only in exceptional circumstances that promotion would be solely on the research only position classification standards.

- General Standard
- Specific Duties
- Skill Base

General Standard

A Level B research-only academic is expected to carry out independent and/or team research within the field in which he/she is appointed and to carry out activities to develop his/her research expertise relevant to the particular field of research

Specific Duties

Specific duties required of a Level B research-only academic may include

- The conduct of research either as a member of a team or independently, and the production of conference and seminar papers and publications from that research.
- Supervision of research-support staff involved in the staff members' research.
- Guidance in the research effort of junior members of research-only academic staff in his/her research area.
- Contribution to the preparation, or where appropriate individual preparation, of research proposal submissions to external funding bodies.
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Administrative functions primarily connected with his/her area of research.
- Occasional contributions in the teaching program within the field of the staff member's research.
- Co-supervision, or where appropriate supervision, of major honours or postgraduate research projects within the field of the staff member's area of research.
- Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental and/pr faculty meetings and/or membership of a limited number of committees.

Skill Base

A Level B research-only academic will normally have completed a doctoral qualification or have equivalent qualifications or research experience. In addition he/she may be expected to have had post-doctoral research experience which has resulted in publications, conference papers, reports or professional or technical contributions which give evidence of research ability.

POSITION CLASSIFICATION STANDARD - Research Only
Level: C
Title: Senior Fellow

Description

A position classification standard describes the broad categories of responsibility attached to research-only academic staff at different levels. The standards are not exhaustive of all tasks in research-only academic employment, which is by its nature multi-skilled and involves an overlap of duties between levels. The standards provide an adequate basis to differentiate between the various levels of employment and define the broad relationships between classifications.

Progression through an academic career will normally be based on research, teaching, administrative functions and contribution to the profession. The balance of functions will vary according to level and position over time. It is only in exceptional circumstances that promotion would be solely on the research only position classification standards.

- General Standard
- Specific Duties
- Skill Base

General Standard

A Level C research-only academic is expected to make independent or original contributions to the research effort within his/her field of expertise and to the organisational unit or inter-disciplinary area of which he/she is a part. An academic at this level is expected to play a major role in research including the exercise of some leadership in research.

Specific Duties

Specific duties required of a Level C research-only academic may include

- The conduct of research and the production of conference and seminar papers and publications from that research.
- Supervision of research-support and administrative staff involved in the staff members' research.
- Supervision where appropriate of the research of less senior research-only academic staff.
- Involvement, where appropriate, in the promotion of research links with outside bodies.
- Preparation of research proposal submissions to external funding bodies.
- Significant role in research projects including where appropriate, leadership of research teams or management of projects.
- Responsibility for the oversight of financial management of grants received for his/her research projects.
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Occasional contributions to the teaching program within the field of the staff member's research.
- Supervision of major honours or postgraduate research projects within the field of the staff member's area of research.
- Various research-related administrative functions.
- Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or departmental and/or faculty meetings and a major role in planning and committee work.

Skill Base

A Level C research-only academic will normally have a relevant doctoral qualification or equivalent accreditation and standing together with subsequent research experience. A position at this level will require a demonstrated strong record of publications, conference papers, reports and/or professional and/or technical contributions in the relevant discipline area.