

## POSITION DESCRIPTION

### Academic Positions

*(In addition to the Position Classification Standards)*

Position Title: Associate Research Fellow / Research Fellow Level: A/B

Faculty/Division: Engineering and Information Sciences

Department/Location: School of Civil, Mining and Environmental Engineering

#### Primary Purpose of the Position:

Conduct research for a project involving Laboratory, Theoretical and Field Investigation of Soft Clay Behaviour under Cyclic Loading Stabilised by Prefabricated Vertical Drains.

#### Position Environment:

The Faculty of Engineering has approx. 1300 undergraduate and postgraduate students, 100 academic/research staff and 30 technical staff. The School of Civil, Mining and Environmental has approximately ten laboratories and conducts large, industrial scale research projects in structural, geotechnical and mining engineering.

#### Major Accountabilities/Responsibilities:

Responsibilities		Outcome	Office Use Only
1.	Work towards research objectives, ensuring close liaison with chief investigators.	Maintain correct project direction and incorporate all research ideas and feedback from the research team	
2.	Critical review of the available literature.	Understanding the current State-of-the-Art	
3.	Planning and execution of experimental work and data analyses.	Obtain good quality laboratory test result	
4.	Execution of appropriate computational techniques and model development.	Predictive tool	
5.	Contribute to high quality technical publications including peer reviewed journal papers.	Dissemination of research outcomes to national and international community	
6.	Prepare technical reports, including the Annual ARC reports.	Fulfilment of ARC requirements	
7.	Involvement in related geotechnical studies and assistance to chief investigators in drafting future research proposals for grant agencies.	Secure related research grants for future extensions of this research	
8.	Communicate and consult with staff on workplace and staffing matters.	To foster direct relationships with staff and enhance engagement with the organisation.	Ongoing
9.	Have WH&S responsibilities, accountabilities and authorities as outlined in the	To ensure a safe working environment for self & others.	Ongoing

	<a href="http://staff.uow.edu.au/ohs/commitment/responsibilities/document">http://staff.uow.edu.au/ohs/commitment/responsibilities/document</a>		
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### 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:	Prof Buddhima Indraratna, Research Director, Centre for Geomechanics and Railway Engineering
The position supervises the following positions:	N/A

### Key Relationships:

**Contact/Organisation:**  
CME Laboratory Manager

**Purpose & Frequency of contact**  
As required.

### Key Challenges:

1. Research Innovation.
2. High-calibre publications.
3. Experimental skill.
4. Knowledge of constitutive modelling.

### SELECTION CRITERIA - Knowledge & Skills:

Essential:

- Demonstrated experience in geotechnical testing.
- Demonstrated experience in computational and numerical modelling.
- Demonstrated ability to work effectively as a member of research team.
- Demonstrated excellent oral and written communication skills.
- Demonstrated ability to apply theory to practice.

## SELECTION CRITERIA - Education & Experience:

Essential:

- Completed Bachelor of Civil Engineering.
- Completed PhD in Civil Engineering or related discipline.
- Field experience in geotechnical engineering.

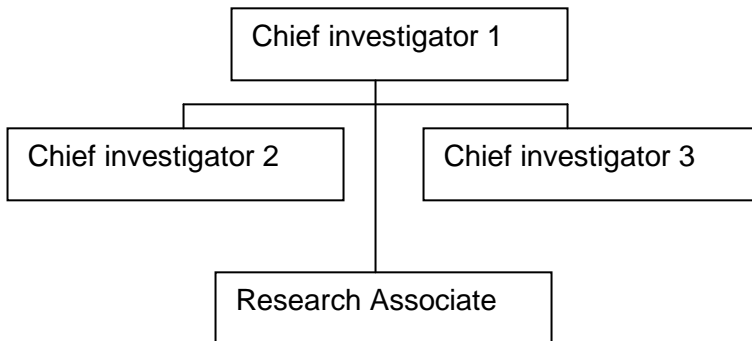
## Personal Attributes:

Energetic, independent, adaptable and innovative.

## Special Job Requirements:

Occasional field trip may be necessary.

## Organisational Chart:



## Approval:

Approved by Head of Unit: B. Indrasatya \_\_\_\_\_

Date: 14/08/2014

Approved by Personnel: \_\_\_\_\_

Date: \_\_\_\_\_

## POSITION CLASSIFICATION STANDARD - Research Only

Level: **A**  
Title: **Associate 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 A research-only academic is expected to contribute towards the research effort of the institution, and to develop her/his research expertise through the pursuit of defined properties relevant to the particular field of research.

### Specific Duties

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

- The conduct of research under limited supervision either as a member of a team or, where appropriate, independently, and the production or contribution to the production of conference and seminar papers and publications from that research.
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise.
- Limited administrative functions primarily connected with the area of research of the academic.
- Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff.
- Occasional contributions to teaching in relation to his/her research project(s).
- Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures.
- 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.
- Advice within the field of the staff member's research to postgraduate students.
- A Level A research-only academic shall work with support, guidance and/or direction from staff classified at Level B and above and with an increasing degree of autonomy as the research academic gains in skill and experience.

### Skill Base

A Level A research-only academic will normally have completed four years of tertiary study in the relevant discipline or have equivalent qualifications or research experience. In many cases a position at this level will require an honours degree or higher qualifications or equivalent research experience. Research experience may have contributed to or resulted in publications, conference papers, reports or professional or technical contributions which give evidence of research potential.

## 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.