



Position Description

College/Division:	College of Science
Faculty/School/Centre:	Research School of Earth Sciences
Department/Unit:	Geophysics
Position Title:	Research Fellow
Classification:	Academic Level B
Position No:	TBC
Responsible to:	Prof. M. Sambridge (Geophysics)
Number of positions that report to this role:	N/A
Delegation(s) Assigned:	N/A

PURPOSE STATEMENT:

The ANU College of Science (CoS) encompasses the disciplines of: Astronomy, Biology, Chemistry, Earth Sciences, Environment and Society, Mathematics, Physics, Science Communication and is also home to cross-disciplinary and specialist Institutes and Centres. Staff and students within the ANU College of Science conduct research and deliver a research-led education program that encompasses the entire breadth of the sciences, supported by extensive international networks and by world-class facilities.

The Research School of Earth Sciences is Australia's leading academic research institution for the Earth sciences. The School have a reputation for international leadership and innovation, focused on developing new methods, whether experimental, analytical, or computational.

The Research Fellow/Lecturer is 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 appointees' research agenda, school and interdisciplinary teaching requirements and leadership opportunities within the School environment. The Research Fellow/Lecturer 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/ Lecturer will be a member of Research School of Earth Sciences, accountable to the project lead Prof. M. Sambridge and Director of the School. The Research Fellow / Lecturer will be expected to work collegially, leading by example to develop and maintain effective, productive and beneficial workplace relationships within the all-academic and professional School and College staff, students and honorary appointees, as well as with industry stakeholders. This position will also have a mentoring role for students and will engage in collegial and productive collaborations with local, national and where possible, international colleagues.

Role Statement:

In their role as an Academic Level B the Research Fellow / Lecturer is expected to:

- Undertake independent research in the area of Mathematical Geophysics 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.
- Actively seek and secure external funding including the preparation and submission of research proposals to external funding bodies.
- Contribute to the teaching activities of the School at the undergraduate and graduate levels. This includes, but is not limited to, the preparation and delivery of lectures and tutorials, the preparation of online material,

marking and assessment, consultations with students, acting as subject coordinators and the initiation and development of course/subject material.

- Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Supervision of research students.
- Supervise Postdoctoral Fellow's and research support staff in your research area.
- Actively contribute to all aspects of the operation of the School. This may include representation through committee memberships.
- Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.
- Maintain high academic standards in all education, research and administration endeavours.
- Take responsibility for their own workplace health and safety and not willfully place at risk the health and safety of another person in the workplace.
- A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.
- Other duties as required that are consistent with the classification of the position.

Skill Base:

A Level B academic will undertake independent teaching and research in their discipline or related area. In research and/or scholarship and/or teaching a Level B academic will make an independent contribution through professional practice and expertise and coordinate and/or lead the activities of other staff, as appropriate to the discipline.

A Level B academic will normally contribute to teaching at undergraduate, honours and postgraduate level, engage in independent scholarship and/or research and/or professional activities appropriate to their profession or discipline. The academic will normally undertake administration primarily relating to their activities at the institution and may be required to perform the full academic responsibilities of and related administration for the coordination of an award program of the institution.

SELECTION CRITERIA:

- A PhD in Geophysics or a related area, with a track record of independent research in the field of Seismology or Mathematical Geophysics as 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.
- Evidence of the ability to articulate and prosecute innovative research in the field of Computational Geophysics and a vision for the activities they will undertake at the ANU.
- A demonstrated ability and commitment to apply for competitive external funding to support individual and collaborative research activities.
- Evidence of an ability and willingness to teach at all levels.
- An ability to supervise and graduate high quality PhD/Masters research students.
- The demonstrated ability to work as part of a team, contributing to team management and a demonstrated ability to meet deadlines.
- 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.
- A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.

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:

Prof. M. Sambridge

Date:

12th June 2024

References:

[General Staff Classification Descriptors](#)

[Academic Minimum Standards](#)



Australian
National
University

Pre-Employment Work Environment Report

Position Details

College/Div/Centre	College of Science	Dept/School/Section	RSES/Geophysics
Position Title	Research Fellow / Lecturer	Classification	Academic Level B
Position No.	TBC	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
key boarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	laboratory work
lifting, manual handling	<input type="checkbox"/>	<input type="checkbox"/>	work at heights
repetitive manual tasks	<input type="checkbox"/>	<input type="checkbox"/>	work in confined spaces
Organizing events	<input type="checkbox"/>	<input type="checkbox"/>	noise / vibration
fieldwork & travel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	electricity
driving a vehicle	<input type="checkbox"/>	<input type="checkbox"/>	
NON-IONIZING RADIATION			IONIZING RADIATION
solar	<input type="checkbox"/>	<input type="checkbox"/>	gamma, x-rays
ultraviolet	<input type="checkbox"/>	<input type="checkbox"/>	beta particles
infra red	<input type="checkbox"/>	<input type="checkbox"/>	nuclear particles
laser	<input type="checkbox"/>	<input type="checkbox"/>	
radio frequency	<input type="checkbox"/>	<input type="checkbox"/>	
CHEMICALS			BIOLOGICAL MATERIALS
hazardous substances	<input type="checkbox"/>	<input type="checkbox"/>	microbiological materials
allergens	<input type="checkbox"/>	<input type="checkbox"/>	potential biological allergens
cytotoxics	<input type="checkbox"/>	<input type="checkbox"/>	laboratory animals or insects
mutagens/teratogens/ carcinogens	<input type="checkbox"/>	<input type="checkbox"/>	clinical specimens, including blood
pesticides / herbicides	<input type="checkbox"/>	<input type="checkbox"/>	genetically-manipulated specimens
			immunisations
OTHER POTENTIAL HAZARDS (please specify):			
Supervisor/Delegate Name:		<i>Prof. M. Sambridge</i>	Date: <i>12 June 2024</i>