<table>
<thead>
<tr>
<th><strong>College/Division:</strong></th>
<th>ANU College of Science</th>
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<tbody>
<tr>
<td><strong>Faculty/School/Centre:</strong></td>
<td>Research School of Earth Sciences</td>
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<tr>
<td><strong>Department/Unit:</strong></td>
<td>Seismology &amp; Mathematical Geophysics</td>
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<tr>
<td><strong>Position Title:</strong></td>
<td>Research Fellow / Lecturer</td>
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<tr>
<td><strong>Classification:</strong></td>
<td>Level B</td>
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<tr>
<td><strong>Position No:</strong></td>
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<td><strong>Responsible to:</strong></td>
<td>Assoc. Prof. Rhodri Davies</td>
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<tr>
<td><strong>Number of positions that report to this role:</strong></td>
<td>1</td>
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<td><strong>Delegation(s) Assigned:</strong></td>
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**PURPOSE STATEMENT:**

The Research Fellow will be responsible for developing a model for the thermal structure of the uppermost mantle and lithosphere beneath Australia, contributing towards a research effort to interpret a wide range of geophysical, geochemical and geological datasets across the Australian continent. The overarching goal is to provide a geodynamic context to regional mineral systems. The position will be based at the Research School of Earth Sciences, under the supervision of Assoc. Prof. Rhodri Davies within the Seismology and Mathematical Geophysics research group. The appointee will also interact closely with Geosciences Australia, Australia’s pre-eminent public-sector geoscience organisation.

The Research Fellow 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 conditions of the external funding, the appointee’s 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.

**POSITION DIMENSION AND RELATIONSHIPS:**

The Research Fellow will be a member of Research School of Earth Sciences, and report to to Assoc. Prof. Rhodri Davies. They will work closely with the Seismology and Mathematical Geophysics group at RSES and will also interact closely with Geosciences Australia, Australia’s pre-eminent public-sector geoscience organisation. The Research Fellow 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 is expected to:

1. Undertake independent research in the area of observational geodynamics, bridging the gap between traditional discipline boundaries and working at the interface between academic, industry, and government researchers, 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. This includes working as part of a team on an externally funded project subject to deadlines and being primarily responsible for project delivery in some areas.
2. Actively seek and secure external funding including the preparation and submission of research proposals to external funding bodies.
3. Subject to the requirements of the funding source and where an opportunity exists, the occupant may be required to contribute to the teaching activities of the School at the undergraduate and graduate levels.
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.

4. Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Supervision of research students.

5. Supervise Postdoctoral Fellow’s and research support staff in your research area.

6. Actively contribute to all aspects of the operation of the School. This may include representation through committee memberships.

7. Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.

8. Maintain high academic standards in all education, research and administration endeavours.

9. 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.

10. A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.

11. 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:

1. A PhD in observational geodynamics or a related area, with a track record of independent research, as evidenced by publications in high-impact 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.

2. Evidence of experience that is relevant to quantitative research in some or all of the following areas: landscape evolution, sedimentology, geochemistry, seismology, rock mechanics, basin dynamics, convection modelling, sea-level modelling, and economic geology.

3. Specific research experience is essential in linking the physics of mantle convection with diverse observations from both geophysical experiments and the geological record. Experience with analysing seismic and borehole datasets, via Python and Fortran, and using seismic tomography to infer mantle structure would be an advantage. Evidence of the ability to collaborate and communicate results with policymakers and industry is also desired.

4. A demonstrated ability and commitment to apply for competitive external funding to support individual and collaborative research activities.

5. Evidence of an ability and willingness to teach at all levels.

6. The demonstrated ability to supervise and graduate high-quality PhD/Masters research students.

7. The demonstrated ability to work as part of a team, contributing to team management and meeting deadlines for project elements.

8. 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.

9. A demonstrated understanding of equal opportunity principles and policies and a commitment to their application in a university context.

Delegate Signature: ____________________________
Date: ____________________________
Printed Name: ____________________________
Position: ____________________________

References:

Academic Minimum Standards