Australian National University

Position Description

College/Division:	ANU College of Science and Medicine
Faculty/School/Centre:	Research School of Earth Science
Department/Unit:	Geochemistry
Position Title:	Postdoctoral Fellow
Classification:	Academic Level A
Position No:	43668
Responsible to:	Professor John Mavrogenes
Number of positions that report to this role:	N/A
Delegation(s) Assigned:	N/A

PURPOSE STATEMENT:

The ANU College of Science and Medicine encompasses the following disciplines: Astronomy and Astrophysics, Biology, Chemistry, Earth Sciences, Physics, Medicine and Psychology, and Medical Research. It is also home to various cross-disciplinary and specialist institutes and centres. Staff and students within the ANU College of Science and Medicine conduct research and deliver research-led education programs spanning the entire breadth of the sciences, supported by extensive international networks and world-class facilities.

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

The Postdoctoral Fellow is expected to undertake research on the Serra Negra REE Prospect, Brazil. This project is funded by Oceana Metals aims to better understand the deposit and its associated mineralisation. The post doctoral fellow will not be expected to teach.

The Postdoctoral Fellow may also be required to supervise or assist in the supervision of students, and contribute cooperatively to the overall intellectual life of the School, College and University.

KEY ACCOUNTABILITY AREAS:

Position Dimension & Relationships:

The Postdoctoral Fellow will be a member of the Research School of Earth Sciences accountable to Prof John Mavrogenes and the Director of the School. The Postdoctoral 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 A the Postdoctoral Fellow is expected to:

- Undertake independent research in the area of Critical Minerals 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 level.
- Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Assist with supervision of research students.
- Assist to supervise research support staff in your research area.
- Actively contribute to all aspects of the operation of the School.

- 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.
- Comply with all ANU policies and procedures, and in particular those relating to work health and safety and equal opportunity

Skill Base:

A Level A academic will work with the support and guidance from more senior academic staff and is expected to develop their expertise in research with an increasing degree of autonomy. A Level A academic will normally have completed four years of tertiary study or equivalent qualifications and experience and may be required to hold a relevant higher degree.

A Level A academic will normally engage in scholarly, research and/or professional activities appropriate to their profession or discipline and undertake administration primarily relating to their activities at the institution.

SELECTION CRITERIA:

1. A PhD (or awarding of a PhD within six months of appointment commencement) in Geochemistry/Petrology, or equivalent qualifications and experience in a related area, with a track record of independent research in the field of critical mineral deposits as evidenced by publications in peer-reviewed journals and conferences is imperative. Experience with carbonatite-related mineral deposits is desirable.
2. Experience in field studies and detailed sampling of critical mineral deposits.
3. Evidence of the ability to articulate and prosecute innovative research in the field of Geochemistry/Petrology.
4. Analytical experience with electron probes, trace element analysis by LA-ICPMS and Multi-collector ICPMS as well as stable and radiogenic isotopic measurement with SHRIMP desirable.
5. An ability and commitment to contribute to bids for competitive external funding to support individual and collaborative research activities.
6. The ability to assist in the supervision of students working on research projects.
7. The ability to work as part of a team and to meet deadlines.
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.

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. All appointments are required to make relevant declarations to comply with the National Higher Education Code to Prevent and Respond to Gender-Based Violence.

Supervisor/Delegate Name:		**Date:**	

References:

Professional Staff Classification Descriptors

Minimum Standards for Academic Levels (MSAL)

Australian National University

Pre-Employment Work Environment Report

Position Details

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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 is used to advise potential applicants of work environment and health and safety hazards prior to application.
- This form must be completed by the supervisor of the position. Without this form jobs cannot be advertised.
- Once an applicant has been selected for the position they must familiarise themselves with the University 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.
- Information regarding reasonable workplace adjustments that may be required to enable an individual to fulfil the inherent requirements of their position is available at 2024_ANU Inherent Requirements Reference Table.pdf

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	☒	☐	laboratory work	☒	☐
lifting, manual handling	☐	☐	work at heights	☐	☐
repetitive manual tasks	☐	☐	work in confined spaces	☐	☐
organizing events	☒	☐	noise / vibration	☐	☐
fieldwork & travel	☒	☐	electricity	☐	☐
driving a vehicle	☒	☐			
NON-IONIZING RADIATION			**IONIZING RADIATION**		
solar	☐	☐	gamma, x-rays	☐	☐
ultraviolet	☐	☐	beta particles	☐	☐
infra red	☐	☐	nuclear particles	☐	☐
laser	☐	☐			
radio frequency	☐	☐			
CHEMICALS			**BIOLOGICAL MATERIALS**		
hazardous substances	☐	☐	microbiological materials	☐	☐
allergens	☐	☐	potential biological allergens	☐	☐
cytotoxics	☐	☐	laboratory animals or insects	☐	☐
mutagens/teratogens/ carcinogens	☐	☐	clinical specimens, including blood	☐	☐
pesticides / herbicides	☐	☐	genetically-manipulated specimens	☐	☐
			immunisations	☐	☐

PSYCHOSOCIAL HAZARDS (please specify):

OTHER POTENTIAL HAZARDS (please specify):