POSITION DESCRIPTION

THE UNIVERSITY OF MELBOURNE

School of Geography, Earth and Atmospheric Sciences

Faculty of Science

Research Fellow in Hydrogeochemistry

POSITION NO	0060970
CLASSIFICATION	Fellow - Level A (minimum of A.6)
SALARY	$80,258 - $108,906 p.a. (pro rata for part-time) (*PhD entry level $101,460 p.a.)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-Time (1.0 FTE)
EMPLOYMENT TYPE	Continuing (Research Contingent) **FLEXIBLE EMPLOYMENT** The University of Melbourne is strongly committed to supporting diversity and flexibility in the workplace. Applications for part-time or other flexible working arrangements will be welcomed and will be fully considered subject to meeting the inherent requirements of the position.
OTHER BENEFITS	http://about.unimelb.edu.au/careers/working/benefits
HOW TO APPLY	Online applications are preferred. Go to http://about.unimelb.edu.au/careers, select the relevant option ('Current Staff' or 'Prospective Staff'), then find the position by title or number.
CONTACT FOR ENQUIRIES ONLY	Prof. Ralf Haese Tel +61 3 90353055 ralf/haese@unimelb.edu.au *Please do not send your application to this contact*

For information about working for the University of Melbourne, visit our website:
about.unimelb.edu.au/careers

Acknowledgement of Country

The University of Melbourne acknowledges the Traditional Owners of country throughout Australia. The University recognises the unique place held by Aboriginal and Torres Strait Islander peoples as the original custodians of country and their continued connection to the land, waterways, songlines and culture. The University respects all Aboriginal and Torres Strait Islander People and warmly embrace those students, staff, Elders and collaborators who identify as First Nations.

Position Summary

The School of Geography, Earth and Atmospheric Sciences is searching for an outstanding researcher to fill the position in Hydrogeochemistry. We are seeking someone with a PhD and expertise in the sampling and analysis of ground- and formation water, laboratory experiments and mineral analysis. The successful applicant would join a vibrant research team working on geological CO_2 storage and carbon mineralization technologies using field and laboratory experiments and geochemical modelling. The appointee will be part of a field experiment involving international collaborators. There will be an opportunity to co-supervise students and contribute to teaching.

The School of Geography, Earth and Atmospheric Sciences combines discipline strength and expertise in those three areas, from the social sciences through to the quantitative physical sciences. In addition to our internationally recognised discipline expertise, we have strength in a number of multidisciplinary thematic areas including: climate change; resource futures; space, place and social change; environmental hazards; Indigenous knowledge; and Earth system interactions. The successful applicant will have teaching and research interests that sit within the discipline of geoscience, intersecting with one or more of these multidisciplinary themes.

We encourage applicants from under-represented groups, including Aboriginal and Torres Strait Islander people. To allow us to consider performance relative to opportunity, we also invite applicants to provide a brief statement (up to 1 page) that describes circumstances that may have affected their career development or progression, including career interruptions or delays, periods of part time work, or forms of bias they have experienced.

1. Key Responsibilities

As with all positions, career achievements will be interpreted relative to opportunity, including career disruptions due to caring responsibilities, time in industry, illness etc.

The Research Fellow (Level A) is expected to carry out his/her research aligned with the project goals and develop his/her career through activities relevant to the profession or discipline. Specific duties are:

1.1 RESEARCH

The appointee will be expected to:

- In collaboration with other project researchers, conduct internationally competitive research in hydrogeochemistry resulting in publications in high impact journals.
- Contribute to the preparation, or where appropriate individual preparation of research proposal submissions to internal or external funding bodies as relevant.

- Report on project progress, develop and maintain shared project data bases and communicate effectively with other team members.
- Active participation in research seminars, and national and international conferences
- Contribute to developing networks within the discipline and with other universities, institutions and communities, both nationally and internationally, to support collaboration.
- Present research to the public to elevate public awareness of educational and scientific developments and promote critical enquiry and public debate within the community.
- Contribute to the supervision of MSc and PhD students where appropriate.

1.2 TEACHING & LEARNING

- Consider voluntary opportunities to teach in the undergraduate and graduate teaching program in Geosciences.

1.3 LEADERSHIP AND SERVICE

The appointee will be expected to:

- Assist in the management and safe operation of the Fluid Flow and Geochemistry laboratory.
- Actively participate at School meetings and contribute to planning activities or committee work to support capacity building in the School/discipline.
- Involvement in professional activity in the discipline and/or multiple disciplines.
- Actively contribute to School activities such as Open day to promote student engagement
- Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity.

1.4 OTHER DUTIES

The appointee will be expected to:

- Perform other tasks as requested by the supervisor.
- Actively participate in the University Professional Development Framework
- Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in section 4.

2. Selection Criteria

2.1 ESSENTIAL

- A PhD in geoscience, chemical or environmental engineering or a related discipline.
- An emerging track record of publications in one or more aspects of hydrogeochemistry, geological CO2 storage, carbon mineralization or similar in leading international journals or other high-quality publications, relative to career opportunity.
- Evidence for research interest and a growing expertise in hydrogeochemistry, specifically fluid – gas – rock interactions.

- An emerging capacity to establish collaborations and engage with researchers from other disciplines to address interdisciplinary problems.
- Evidence of excellent communication in English including oral presentations and written reports and publications.
- Evidence of having worked in a laboratory and following procedures to ensure high quality results and safe operations.
- A demonstrated ability in interpersonal and organisational skills including the ability to project manage, meet deadlines, and interact with colleagues from a broad range of disciplines in a collegial, respectful and effective manner.

2.2 DESIRABLE

- A potential or demonstrated capacity to interpret stable isotope data from fluids and gases.
- A potential or demonstrated capacity to develop and run reactive-transport models.

2.3 OTHER JOB RELATED INFORMATION

- This position requires the incumbent to hold a current and valid Working with Children Check. This clearance can be arranged by the University of Melbourne prior to the successful applicant starting.
- This position requires the incumbent to have a valid Australian drivers license at least three months after commencement of the position.
- Occasional work out of ordinary hours, travel, fieldwork etc.

3. Equal Opportunity, Diversity and Inclusion

The University is an equal opportunity employer and is committed to providing a workplace free from all forms of unlawful discrimination, harassment, bullying, vilification and victimisation. The University makes decisions on employment, promotion, and reward on the basis of merit.

The University is committed to all aspects of equal opportunity, diversity and inclusion in the workplace and to providing all staff, students, contractors, honorary appointees, volunteers and visitors with a safe, respectful and rewarding environment free from all forms of unlawful discrimination, harassment, vilification and victimisation. This commitment is set out in the Advancing Melbourne strategy that addresses diversity and inclusion, equal employment opportunity, discrimination, sexual harassment, bullying and appropriate workplace behaviour. All staff are required to comply with all University policies.

The University values diversity because we recognise that the differences in our people's age, race, ethnicity, culture, gender, nationality, sexual orientation, physical ability and background bring richness to our work environment. Consequently, the People Strategy sets out the strategic aim to drive diversity and inclusion across the University to create an environment where the compounding benefits of a diverse workforce are recognised as vital in our continuous desire to strive for excellence and reach the targets of Advancing Melbourne.

4. Occupational Health and Safety (OHS)

All staff are required to take reasonable care for their own health and safety and that of other personnel who may be affected by their conduct.

OHS responsibilities applicable to positions are published at:

http://safety.unimelb.edu.au/topics/responsibilities/

These include general staff responsibilities and those additional responsibilities that apply for Managers and Supervisors and other Personnel.

5. Other Information

5.1 SCHOOL OF GEOGRAPHY, EARTH AND ATMOSPHERIC SCIENCES

http://sgeas.unimelb.edu.au

The School of Geography, Earth and Atmospheric Sciences was formally established in 2021, following the merger of the Schools of Geography and Earth Sciences. The new School synergises discipline strengths in geography, atmospheric science and geoscience. The School offers undergraduate and graduate research programs in these core discipline areas, and in the multi-disciplinary fields of Climate Change, Environmental Science and Archaeological Science. The research within the School is built upon extensive expertise in geography, geoscience and atmospheric science, ranging from the social sciences through to the quantitative physical sciences. In addition to internationally recognised discipline expertise, we have strengths in a number of multi-disciplinary areas including: climate change; resource futures; space, place and social change; environmental hazards; Indigenous knowledge; and Earth system interactions. With strengths in both the spatial (local to global) and temporal (deep time as well as recent) dimensions of environmental change, the School is committed to achieving a better future for our students, society and the environment. We are committed to advancing reconciliation with Indigenous Australians through involvement with the Indigenous Knowledges Institute which is hosted within the Faculty of Science, research and teaching partnerships with Indigenous communities, and archaeological science. The School contributes strongly to the key areas of Place, Community, Education, Discovery, and Global in the University's Advancing Melbourne Strategy.

5.2 FACULTY OF SCIENCE

http://www.science.unimelb.edu.au

Science at Melbourne is a global leader across fundamental and impactful scientific research and education. Science begins with curiosity, and we are dedicated to understanding the universe from the level of sub-atomic particles to the solar system. We aim to be leaders who positively impact the community locally and globally, addressing major societal issues from climate change to disease. Our discoveries help build an understanding of the world around us.

Our strength is our breadth of expertise. We are the second largest faculty in the University comprising seven schools: Agriculture, Food & Ecosystem Sciences, BioSciences, Chemistry, Geography, Earth & Atmospheric Sciences, Mathematics & Statistics, Physics and Veterinary Science.

This depth of knowledge positions the faculty to better understand, explore and impact our world and humanity, within a truly comprehensive Faculty of Science.

We have more than 150 years of experience in pioneering scientific thinking and analysis, leading to outstanding teaching and learning and offer a curriculum based on highly relevant research. We aim to train students with the knowledge and intellectual flexibility to drive the industries of tomorrow and lead across all levels of society.

We offer a range of undergraduate, honours, graduate and research degrees, enrolling more than 11,500 undergraduate and 3,750 graduate students.

We are dedicated to delivering leading transformative educational outcomes, underpinned by research, and an inclusive and inspiring student experience.

Excellence comes in many forms and diversity of thought, perspective and disciplines is essential to deliver globally leading science. At the core of our success is our focus on an inclusive environment for all in our community. Our Faculty's focus on equity, inclusion and belonging is grounded in our endeavour to ensure we are best placed to advance research, teaching and serve diverse national and global communities.

As a Science community we sit across five of the University's campuses – Parkville, Dookie, Burnley, Creswick and Werribee. This reach provides us with a unique perspective that is beneficial to our teaching and research. It also means we can offer our students a greater variety of learning experiences and internships to engage with industry partners to solve real-world issues.

The Faculty is custodian of the Bio21 Molecular Science and Biotechnology Institute, Melbourne Energy Institute, Melbourne Biodiversity Institute, Office for Environmental Programs, Australian Mathematical Sciences Institute (AMSI) and the Indigenous Knowledge Institute and home to numerous Centres.

5.3 THE UNIVERSITY OF MELBOURNE

Established in 1853, the University of Melbourne is a leading international university with a tradition of excellence in teaching and research. The main campus in Parkville is recognised as the hub of Australia's premier knowledge precinct comprising eight hospitals, many leading research institutes and a wide-range of knowledge-based industries. With outstanding performance in international rankings, the University is at the forefront of higher education in the Asia-Pacific region and the world.

The University employs people of outstanding calibre and offers a unique environment where staff are valued and rewarded.

Further information about working at The University of Melbourne is available at http://about.unimelb.edu.au/careers.

5.4 ADVANCING MELBOURNE

The University's strategic direction is grounded in its purpose. While its expression may change, our purpose is enduring: to benefit society through the transformative impact of education and research. Together, the vision and purpose inform the focus and scale of our aspirations for the coming decade.

Advancing Melbourne reflects the University's commitment to its people, its place, and its partners. Our aspiration for 2030 is to be known as a world-leading and globally connected Australian university, with our students at the heart of everything we do.

- We will offer students a distinctive and outstanding education and experience, preparing them for success as leaders, change agents and global citizens.

- We will be recognised locally and globally for our leadership on matters of national and global importance, through outstanding research and scholarship and a commitment to collaboration.
- We will be empowered by our sense of place and connections with communities. We will take opportunities to advance both the University and the City of Melbourne in close collaboration and synergy.
- We will deliver this through building a brilliant, diverse and vibrant University community, with strong connections to those we serve.

The means for achieving these goals include the development of the University of Melbourne's academic and professional staff and the capabilities needed to support a modern, world-class university. Those means require a commitment to ongoing financial sustainability and an ambitious infrastructure program which will reshape the campus and our contribution to the communities we engage with. This strategy, and the priorities proposed, is centred around five intersecting themes: place, community, education, discovery and global.

5.5 GOVERNANCE

The Vice Chancellor is the Chief Executive Officer of the University and responsible to Council for the good management of the University.

Comprehensive information about the University of Melbourne and its governance structure is available at http://www.unimelb.edu.au/governance