



POSITION DESCRIPTION

School of Geography, Earth and Atmospheric Sciences
Faculty of Science

ABORIGINAL & TORRES STRAIT ISLANDER APPLICANTS ARE
STRONGLY ENCOURAGED TO APPLY

Research Fellow in Climate Variability

POSITION NO	0057176
CLASSIFICATION	Level A
SALARY	\$77,171- \$104,717p.a (pro-rata for part-time) *PhD entry level \$97,558p.a. (pro rata for part time)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full-Time.
BASIS OF EMPLOYMENT	Fixed-Term for 2 years.
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	Dr Josephine Brown Tel +61 3 9035 4140 Email josephine.brown@unimelb.edu.au <i>Please do not send your application to this contact</i>

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

Position Summary

We invite applications for a two-year postdoctoral fellowship researching climate variability and extremes in observations and climate model simulations, with a focus on the northern Australian monsoon. We seek a highly qualified applicant with strong quantitative skills and an excellent understanding of climate processes. You will contribute to the National Environmental Science Program Climate Systems Hub project on Extreme Events Explained which aims to provide context and understanding of changing Australian climate extremes. Your work will contribute to improved climate projections and understanding of climate extremes to assist a range of stakeholders.

The position is located within the School of Geography, Earth and Atmospheric Sciences at the University of Melbourne, supervised by Dr Josephine Brown in collaboration with Dr Sugata Narsey at the Bureau of Meteorology. Candidates seeking part-time or flexible work arrangements are encouraged to apply.

1. Key Responsibilities

- ▶ Conduct research under supervision to meet the objectives of the NESP Extreme Events Explained project, with a focus on historical and future variability of northern Australian monsoon rainfall
- ▶ Communicate research findings by publishing in highly ranked journals, presenting at relevant conferences and developing plain English summaries and case studies
- ▶ Contribute to the co-design and co-production of research projects through interaction with stakeholders during the research process
- ▶ Participate in NESP events and attend relevant conferences, workshops and seminars
- ▶ Assist with supervision and mentoring of undergraduate and graduate research students
- ▶ Assist in the preparation of proposals and submissions to external funding bodies
- ▶ Undertake tasks in relation to project management and project reporting as required

2. Selection Criteria

2.1 ESSENTIAL

- ▶ Completion (or near completion) of a PhD in Atmospheric Science or a related discipline
- ▶ Demonstrated knowledge of climate variability and climate change science
- ▶ Strong computational skills in a programming environment such as Python, Matlab or R
- ▶ Ability to work collaboratively in teams, and independently, to meet project milestones
- ▶ Excellent oral and written communication skills in English
- ▶ Demonstrated or potential capacity to publish in high quality peer reviewed journals
- ▶ Demonstrated excellent organisational skills to meet deadlines and bring projects to a timely completion

2.2 DESIRABLE

- ▶ Experience with configuring and running global climate model simulations
- ▶ Experience engaging with relevant government or industry stakeholders

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 Advancing Melbourne address 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 deserve to service 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 NATIONAL ENVIRONMENTAL SCIENCE PROGRAM (NESP) CLIMATE SYSTEMS HUB

The Australian Government National Environmental Science Program (NESP) [Climate Systems Hub](#), through our partner universities, is seeking postdoctoral researchers with a strong interest in addressing Australia's climate science challenges and climate adaptation needs. The Hub was established in 2021 and will conduct research activity until 2026. The Hub aims to help shape national climate resilience by building a climate research program

with practical on-ground results, integrated across broader Australian risk and resilience capabilities. The Hub provides an opportunity to further develop Australia's climate science capability while working directly with adaptation practitioners. It will drive and undertake coordinated climate change and adaptation research across all four of the new NESP Hubs through the cross-cutting Climate Adaptation Initiative.

This initiative will enable integrated adaptation research across the program to support evidence-based decision-making and improve Australia's climate resilience. Hub postdoctoral researchers will engage in co-design with federal, state and territory stakeholders that fosters development of project outputs and outcomes to meet Australian needs addressing climate science and adaptation challenges. Individual projects will be developed in conjunction with some of Australia's leading climate researchers.

5.2 SCHOOL OF GEOGRAPHY, EARTH AND ATMOSPHERIC SCIENCES

<http://www.sgeas.unimelb.edu.au/>

In 2021 the School of Geography, Earth and Atmospheric Sciences was formed within the Faculty of Science. The School combines discipline strength and expertise in Geography, Earth and Atmospheric Sciences, and its research and teaching spans 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 areas including: climate change; resource futures; space, place and social change; environmental hazards; Indigenous knowledge; and Earth system interactions. Environmental change is an overarching theme of interest in the School, and is analysed with reference to both social and natural sciences. The School is dedicated to achieving a better future for our students, societies and the environment.

5.3 FACULTY OF SCIENCE

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

Science at the University of Melbourne is the most highly ranked Faculty of Science in Australia. Science is defined by its research excellence in the physical and life sciences and is at the forefront of research addressing major societal issues from climate change to disease. Our discoveries help build an understanding of the world around us.

We have over 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, which empowers our STEM students and graduates to understand and address complexities that impact real world issues and the challenges of tomorrow.

We aspire to engage the broader community with the impact that Science has on our everyday lives. Through the strength of our internships and research project offerings, our students are provided opportunities to engage with industry partners to solve real-world issues.

The Faculty of Science has over 50,000 alumni and is one of the largest faculties in the University comprising six schools: BioSciences, Chemistry, Ecosystem and Forest Sciences, Mathematics and Statistics, Physics and the School of Geography, Earth and Atmospheric Sciences.

The Faculty is custodian of the Bio21 Molecular Science and Biotechnology Institute, the Indigenous Knowledge Institute, the Melbourne Energy Institute, the Office for Environmental Programs and home to numerous Centres.

Science manages more than \$301 million of income per annum, with a staff base in the order of 250 FTE professional staff, and more than 662 FTE academic staff.

We offer a range of undergraduate, honours, graduate and research degrees; enrolling over 10,800 undergraduate and 2,500 graduate students. The Faculty of Science is the custodial Faculty for the BSc (Bachelor of Science). The Faculty of Science is highly research focused, performing strongly in the Australian Research Council competitive grants schemes. The Faculty of Science is currently growing its competitiveness and standing in the National Health and Medical Research Council and health space.

The Faculty of Science provides community services and industry partnerships based on a solid foundation of research in the pure and applied sciences. The Faculty has an endowment of approximately \$100 million. The annual income from the endowment supports more than 140 prizes, scholarships and research awards, and numerous academic positions.

5.4 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>.

5.5 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.

5.6 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>