



POSITION DESCRIPTION

Faculty of Science
School of Earth Sciences

Lecturer in Atmospheric Science

POSITION NO	0042596
CLASSIFICATION	Level B
SALARY	\$95,434 - \$113,323 per annum
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Full time (1.0 FTE)
BASIS OF EMPLOYMENT	Continuing
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	Associate Professor Todd Lane Tel +61 3 8344 6516 Email tplane@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

The School of Earth Sciences invites applications from highly qualified and motivated individuals to fill a continuing teaching and research position in the area of Atmospheric Science. We are seeking an individual with research interests and expertise primarily in the areas of meteorology, climate science, or weather-climate interactions. The appointee will undertake independent research, supervise research students, and also teach and administer components of the School's Climate and Weather undergraduate and graduate programs. This position is linked to the recently funded ARC Centre of Excellence for Climate Extremes and the appointee would contribute to one of the Centre's research programs.

We welcome applications from members of under-represented groups and/or individuals seeking flexible work arrangements.

1. Key Responsibilities

- ▶ Conduct a program of research that contributes to the Climate and Weather theme of the School of Earth Sciences
- ▶ Conduct research that contributes to at least one of the ARC Centre of Excellence for Climate Extremes research programs (i.e., Extreme Rainfall, Drought, Heatwaves & Cold Outbreaks, and Tropical & Extratropical Climate Variability)
- ▶ Engage with internal and external collaborators, including those in the ARC Centre of Excellence for Climate Extremes
- ▶ Supervise research students (honours, masters, and/or PhD students)
- ▶ Teach and administer components of the School's Climate and Weather undergraduate and graduate teaching program
- ▶ Obtain external funding to support their research
- ▶ Publish research findings in international refereed journals and present results at seminars, conferences, and meetings.
- ▶ Take an active and constructive role in School activities, administration, and committees as required
- ▶ Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in section 5 or 6.

2. Selection Criteria

2.1 ESSENTIAL

- ▶ A PhD in atmospheric science or a related discipline
- ▶ A potential or demonstrated capacity to teach undergraduate or graduate courses on topics including physical and dynamical meteorology, climate variability and change, and multi-disciplinary aspects of climate science.
- ▶ An established track record of high quality publications in leading international journals in the areas of meteorology, climate science, or weather-climate interactions.
- ▶ A demonstrated capacity to establish collaborations and engage with a broad range of researchers nationally and internationally

- ▶ A potential or demonstrated capacity to supervise undergraduate and graduate research students
- ▶ A potential or demonstrated capacity to attract external research funding
- ▶ A potential or demonstrated capacity to initiate or contribute to service activities within the School, the ARC Centre of Excellence for Climate Extremes, and the broader professional community
- ▶ A potential capacity to provide leadership in one of the research programs of the ARC Centre of Excellence for Climate Extremes
- ▶ Excellent oral and written communication skills in English
- ▶ A demonstrated ability in the area of interpersonal and organisational skills including the ability to project manage and meet deadlines

2.2 DESIRABLE

- ▶ Research interests that address issues at the weather-climate interface using innovative approaches
- ▶ Experience using high performance computing or analysing large datasets

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 University's People Strategy 2015-2020 and policies that 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 desire to service for excellence and reach the targets of Growing Esteem.

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 ORGANISATION UNIT

The School of Earth Sciences has 49 Academic and Research staff and 9 Professional staff, involved in teaching and research in various branches of the solid and atmospheric Earth Sciences. The School operates a comprehensive programme of Tertiary Education at both undergraduate and postgraduate levels and undertakes extensive research programs of fundamental and applied significance.

This position will be embedded within the School's Climate and Weather theme, which is an active group focusing on many aspects of atmospheric science, meteorology and climate science. Of particular relevance for this position is the School's role in the Australian Research Council's Centre of Excellence for Climate Extremes. The ARC Centre of Excellence for Climate Extremes is a major 7-year initiative supported by the Australian Research Council. It is a consortium of five Australian universities with a suite of outstanding national and international Partner Organisations as collaborators. The Centre of Excellence research agenda encompasses interconnected research programs focused on Heatwaves, Rainfall, Drought and Variability in the Tropics and Extratropics.

Information on the ARC Centre of Excellence for Climate Extremes can be found at:
<http://arc-extremes.weebly.com>

Information on the School of Earth Sciences can be found at:
<http://www.earthsci.unimelb.edu.au/>

5.2 BUDGET DIVISION

<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 seven schools: BioSciences, Chemistry, Earth Sciences, Ecosystem and Forest Sciences, Geography, Mathematics and Statistics, and Physics.

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

Science manages more than \$290 million of income per annum, with a staff base in the order of 270 professional staff, and more than 580 academic staff.

We offer a range of undergraduate, honours, graduate and research degrees; enrolling over 8,600 undergraduate and 2,440 graduate students. The Faculty of Science is the custodial Faculty for the BSc (Bachelor of Science). The Faculty of Science is a leader in research, contributing approximately \$70 million in HERDC income per annum. The Faculty of Science is highly research focused, performing strongly in the ARC competitive grants schemes, often out-performing the national average. The Faculty of Science is currently growing its competitiveness and standing in the NHMRC 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 \$56 million. The annual income from the endowment supports more than 120 prizes, scholarships and research awards.

*Figures from the latest available data for 2015, including published international rankings data.

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 GROWING ESTEEM, THE MELBOURNE CURRICULUM AND RESEARCH AT MELBOURNE: ENSURING EXCELLENCE AND IMPACT TO 2025

Growing Esteem describes Melbourne's strategy to achieve its aspiration to be a public-spirited and internationally-engaged institution, highly regarded for making distinctive contributions to society in research and research training, learning and teaching, and engagement. <http://about.unimelb.edu.au/strategy-and-leadership>

The University is at the forefront of Australia's changing higher education system and offers a distinctive model of education known collectively as the Melbourne Curriculum. The new educational model, designed for an outstanding experience for all students, is based on six broad undergraduate programs followed by a graduate professional degree, research higher degree or entry directly into employment. The emphasis on academic breadth as well as disciplinary depth in the new degrees ensures that graduates will have the capacity to succeed in a world where knowledge boundaries are shifting and reforming to create new frontiers and challenges. In moving to the new model, the University is also aligning itself with the best of emerging European and Asian practice and well-established North American traditions.

The University's global aspirations seek to make significant contributions to major social, economic and environmental challenges. Accordingly, the University's research strategy *Research at Melbourne: Ensuring Excellence and Impact to 2025* aspires to a significant

advancement in the excellence and impact of its research outputs.

<http://research.unimelb.edu.au/our-research/research-at-melbourne>

The strategy recognises that as a public-spirited, research-intensive institution of the future, the University must strive to make a tangible impact in Australia and the world, working across disciplinary and sectoral boundaries and building deeper and more substantive engagement with industry, collaborators and partners. While cultivating the fundamental enabling disciplines through investigator-driven research, the University has adopted three grand challenges aspiring to solve some of the most difficult problems facing our world in the next century. These Grand Challenges include:

- ▶ Understanding our place and purpose – The place and purpose grand challenge centres on understanding all aspects of our national identity, with a focus on Australia’s ‘place’ in the Asia-Pacific region and the world, and on our ‘purpose’ or mission to improve all dimensions of the human condition through our research.
- ▶ Fostering health and wellbeing – The health and wellbeing grand challenge focuses on building the scale and breadth of our capabilities in population and global health; on harnessing our contribution to the ‘convergence revolution’ of biomedical and health research, bringing together the life sciences, engineering and the physical sciences; and on addressing the physical, mental and social aspects of wellbeing by looking beyond the traditional boundaries of biomedicine.
- ▶ Supporting sustainability and resilience – The sustainability and resilience grand challenge addresses the critical issues of climate change, water and food security, sustainable energy and designing resilient cities and regions. In addition to the technical aspects, this grand challenge considers the physical and social functioning of cities, connecting physical phenomena with lessons from our past, and the implications of the technical solutions for economies, living patterns and behaviours.

Essential to tackling these challenges, an outstanding faculty, high performing students, wide collaboration including internationally and deep partnerships with external parties form central components of Research at Melbourne: Ensuring Excellence and Impact to 2025.

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>