

POSITION DESCRIPTION

School of GeographyFaculty of Science

Research Fellow in Ecology

POSITION NO	0043950
CLASSIFICATION	Level A
SALARY	\$69,148 - \$93,830 p.a (pro rata for part-time)
SUPERANNUATION	Employer contribution of 9.5%
WORKING HOURS	Full-time (part-time will be considered)
BASIS OF EMPLOYMENT	Fixed-term position available for 28 months
OTHER BENEFITS	http://about.unimelb.edu.au/careers/working/benefits
OTHER BENEFITS HOW TO APPLY	http://about.unimelb.edu.au/careers/working/benefits 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.
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For information about working for the University of Melbourne, visit our website: about.unimelb.edu.au/careers

Position Summary

This research fellow position will contribute to an ARC Discovery project entitled *Species coexistence in the real world: novel field tests of complex theory,* which is a collaboration between researchers from The University of Melbourne (Professor Barbara Downes), Deakin University (Associate Professor Rebecca Lester) and the University of Arizona (Professor Peter Chesson). The project's aim is to test ecological theories of species coexistence using the aquatic insects that inhabit streams. These aims will be achieved by carrying out a series of laboratory and/or field experiments designed largely around manipulating densities of egg masses but will also involve the sampling of other life-cycle stages.

The successful applicant will play a leading role in helping design and carry out field-based surveys and experiments, analysing the data, and writing research papers, in collaboration with the team of investigators. This position is located within The University of Melbourne's School of Geography, under the supervision of Prof Barbara Downes, but the Research Fellow will also work directly with the other investigators on this project.

1. Key Responsibilities

Minimum Standards of performance for Level A are outlined in Schedule B – Minimum Standards for Academic Levels.

- Design and conduct ecological research and produce high-quality papers for publication in international, peer-reviewed journals in collaboration with co-investigators
- Present research findings at internal research meetings and national and international conferences
- Liaise effectively with collaborators
- Help supervise research assistants in the field and laboratory
- Co-supervise postgraduate students involved in the project
- Present occasional lectures and tutorials to undergraduate and postgraduate students
- Provide service to the School of Geography and actively participate in meetings and committees commensurate with the position and as requested
- Undertake administrative functions and obligations primarily connected with the incumbent's area of research
- Occupational Health and Safety (OH&S) and Environmental Health and Safety (EH&S) responsibilities as outlined in section 5.

2. Selection Criteria

2.1 ESSENTIAL

- A PhD in a relevant area of ecology or equivalent
- An excellent research track record, relative to opportunity, as evidenced by peer-reviewed publications in high-quality journals and written and oral presentations to academic audiences
- Demonstrated ability to plan, conduct and report on ecological research under limited supervision

- Demonstrated, excellent skills in both experimental and survey design
- Demonstrated, excellent skills in using statistics to analyse data
- Demonstrated experience conducting field-based ecological research successfully
- Demonstrated ability to work effectively in teams as well as independently when required in both the field and in the laboratory
- A thorough knowledge of riverine fauna
- Excellent oral and written communication skills in English

2.2 DESIRABLE

- Demonstrated expertise with identifying different species and life stages of stream invertebrates, particularly egg masses
- Demonstrated experience with quantitative and/or mathematical models of ecological processes
- Demonstrated experience with 4WD vehicles

3. Special Requirements

- The successful applicant must possess a full driver's licence valid in the state of Victoria
- Overnight and inter-state travel for field work will be required

4. 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 strive for excellence and reach the targets of Growing Esteem.

5. 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/people/community/responsibilities-of-personnel

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

6. Other Information

6.1 ORGANISATION UNIT

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

After 54 years in which Geography has been located in other Faculties and Departments of the University, a new School of Geography was formed in 2015 within the Faculty of Science. Located on Bouverie Street in Carlton, the School currently comprises 20 academic staff, and 5 professional staff who include a cartographer, and a laboratory and technical officer. Academic research and teaching specialises in the geographic areas of international development, urbanisation, geomorphology, and biogeography. Environmental change is an overarching theme of interest, and is analysed with reference to both social and natural sciences. Research is supported by palynology, geomorphology, aquatic –ecology, and paleo-climatology laboratories and a full range of field equipment. Geography teaching is undertaken in the undergraduate majors of Geography (offered in the BSc and the BA) and Environmental Geography (offered in the B Environments). Masters teaching is in the MSc (Geography) and in the University-wide Master of Environment. The School has a thriving postgraduate research training program with approximately 65 PhD students currently enrolled.

6.2 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 40,000 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 \$280 million of income per annum, with a staff base in the order of 220 professional staff, and more than 540 academic staff.

We offer a range of undergraduate, honours, graduate and research degrees; enrolling over 7,500 undergraduate and graduate students. The Faculty of Science is the custodial Faculty for the BSc (Bachelor of Science) with enrolments of approximately 6,200 students.

The Faculty of Science is a leader in research, contributing approximately \$50 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 \$50 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.

6.3 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.

6.4 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.

6.5 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