

POSITION DESCRIPTION

School of Mathematics and Statistics
Faculty of Science

POSTDOCTORAL RESEARCH FELLOW

POSITION NO	0051226
CLASSIFICATION	Level A / Level B
SALARY	Level A: \$73,669 - \$99,964 p.a (PhD entry level \$93,120) Level B: \$105,232 - \$124,958 p.a
SUPERANNUATION	Employer contribution of 9.5%
WORKING HOURS	Full-time (1.0 FTE)
BASIS OF EMPLOYMENT	Fixed-Term for 2 years
OTHER BENEFITS	http://about.unimelb.edu.au/careers/working/benefits
HOW TO APPLY	Online applications are essential. 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	Professor Jan de Gier Tel +61 3 8344 7887 Email jd gier@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 Mathematics and Statistics at the University of Melbourne has four two-year research positions available for exceptional early career researchers in the mathematical sciences, whose research has the potential to have a significant impact, either in fundamental research or toward practical applications. The School maintains activity in all areas of the mathematical sciences, and the positions can be related to any area.

The successful applicant is expected to have the potential to lead a vigorous research program in their area with the promise of significant impact. The University of Melbourne is located in one of the greatest cities in the world, provides ample opportunities for the supervision of strong master's and PhD level research students and offers a wide range of opportunities for research collaborations within the School, the Faculty of Science as well as the broader University community.

The School has an ongoing commitment to improving our gender balance and has demonstrated success with a recruitment program that is focussed on creating a gender balance and diversity. Women and persons belonging to minority groups are strongly encouraged to apply for these positions.

1. Key Responsibilities

1.1 RESEARCH AND RESEARCH TRAINING

You are expected to significantly contribute towards the research effort of the School and to develop your research with an increasing degree of autonomy, and,

- Conduct research and contribute to knowledge through scholarship, refereed publications and presentations.
- Apply and be successful in obtaining external research grant income to support that research.
- Actively participate in research seminars and conferences to disseminate research findings as opportunities arise.
- Supervise postgraduate students, both MSc and PhD.
- Contribute to the supervision of junior research staff in your research area.

1.2 LEADERSHIP AND SERVICE

- Participate in School and/or Faculty meetings and/or the committees at the request of the Head of School.
- Be involved in professional activity in the discipline, such as the organisation of workshop and research events.
- Contribute to School activities such as Open Day.
- Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity

1.3 ENGAGEMENT

- ▶ Present research to the public to increase public awareness of educational and scientific developments.
- ▶ Actively participate in outreach activities.

1.4 OTHER DUTIES

- ▶ Perform other tasks as requested by the supervisor or the Head of School.
- ▶ Participate in the University Professional Development Framework.
- ▶ Ensure an up-to-date record of University compliance courses, such as, but not limited to, Appropriate Workplace Behaviour, PDF for Staff and Supervisors, OH&S training courses.
- ▶ 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

- ▶ Completion of a PhD in the mathematical sciences, or equivalent,
 - awarded on, or after 1 March 2015; or
 - have an award of PhD date together with a period of career interruptions that would be commensurate with an award of PhD date on, or after 1 March 2015. Allowable career interruptions are carer's responsibilities, medical condition or disability, maternity or parental leave, unemployment, and non-research employment not concurrent with research employment.
- ▶ Existing working rights in Australia and ability to travel to Melbourne.
- ▶ Demonstrated capacity to engage in outstanding research relative to time since PhD completion, as evidenced by publications, preprints, reference letters, and impact in the mathematical sciences community.
- ▶ Potential to develop national and international research collaborations, and to attract funding through grant applications.
- ▶ Excellent written and verbal communication skills in English.

2.2 ADDITIONAL ESSENTIAL CRITERIA FOR APPOINTMENT AT LEVEL B AND DESIREABLE FOR LEVEL A

- ▶ Postdoctoral experience in the mathematical sciences.
- ▶ Demonstrated ability to initiate and undertake independent, self-motivated research with an excellent record of peer-reviewed publications, commensurate with experience and opportunities.
- ▶ Ability to assist in the supervision and mentoring of research students.
- ▶ Strong evidence of ability and desire to build an academic research career trajectory
- ▶ An international research profile, as evidenced by publication record, active collaborations, invitations to speak and/or service to relevant professional bodies.

2.3 DESIRABLE (BOTH LEVELS)

- ▶ Demonstrated ability to attract external funding through grant applications and/or support in funded joint projects with others internal or external to the university.
- ▶ Experience in assisting with supervision of students undertaking undergraduate or higher degree research projects.

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 strive 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 SCHOOL OF MATHEMATICS AND STATISTICS

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

The University of Melbourne's School of Mathematics and Statistics is one of Australia's leading mathematics and statistics schools. It has achieved this status through the high quality of its research and teaching programs. The School offers a wide range of

subjects to undergraduate and postgraduate students and is involved in aspects of community life that impact on the interests of the School and the discipline.

The School of Mathematics and Statistics has a total of 70 continuing teaching and/or research staff; 34 research only staff and consultants; 16 academic specialists and 16 support staff. The School has over 240 casual and honorary staff. In 2020, there were 90 Research Higher Degree and 278 Coursework Master of Science students. Five members of the School staff and one Emeritus Professor are members of the Academy of Science.

Infrastructure support for research and basic information technology facilities are provided to all members of the department. Special facilities such as high-end workstations and salaries for research fellows are supported through individual competitive external research grants. Members of the School have had considerable success at attracting support from the Australian Research Council. The school currently hosts two ARC Centres of Excellence, and has hosted four ARC Laureate Fellows, ten ARC Future Fellows and fourteen DECRA Fellows.

It is one of the objectives of the University to develop and maintain a strong international profile. In this context, members of the School have strong collaborative links with colleagues in the United States of America, most countries in Europe and the Asia-Pacific region.

5.2 FACULTY OF SCIENCE

<https://science.unimelb.edu.au>

Science at the University of Melbourne is among the most highly ranked Faculties 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 53,000 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, Australian Mathematical Sciences Institute (AMSI) and home to numerous Centres.

Science manages more than \$315 million of income per annum, with a staff base in the order of 290 professional staff, and more than 630 academic staff.

We offer a range of undergraduate, honours, graduate and research degrees; enrolling over 9,700 undergraduate and 2,400 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 \$80 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.

**Based on 2018-19 subject rankings by QS and Time Higher Education*

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>