

POSITION DESCRIPTION

School of Mathematics and Statistics Faculty of Science

Melbourne Enterprise Fellow (Mathematics for Industry)

POSITION NO	0045913
CLASSIFICATION	Level D
SALARY	\$145,685 - \$160,500 p.a. (pro-rata)
SUPERANNUATION	Employer contribution of 17%
WORKING HOURS	Part-time (0.5FTE)
BASIS OF EMPLOYMENT	Fixed-term for 3 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
	The production of the relevant option
	('Current Staff' or 'Prospective Staff'), then find the position by title or number.

For information about working for the University of Melbourne, visit our websites:

about.unimelb.edu.au/careers joining.unimelb.edu.au

Position Summary

The University of Melbourne is appointing a small number of industry leaders as Melbourne Enterprise Fellows with the view to working together to find solutions to real world problems. These are distinguished positions with incumbents expected to contribute to the University's teaching, research and engagement activities by sharing their industry knowledge, expertise and practice.

The School of Mathematics and Statistics proposes to build capacity in the area of Mathematics for Industry through a strategic partnership with an external stakeholder. The main aim of the appointment is to develop partnerships with researchers and business and industry partners that lead to mutually rewarding outcomes.

The Melbourne Enterprise Fellow (Mathematics for Industry) will work with researchers in the School of Mathematics and Statistics to develop new research initiatives and pursue funding that accelerates research. While the main focus will be on opportunities in the School of Mathematics and Statistics, the Fellow will be expected to explore opportunities with other Schools in the Faculty of Science and the broader University such as the Faculty of Engineering and the Faculty of Medicine, Dentistry and Health Sciences.

The successful candidate will have demonstrable expertise in industrial mathematics, applied optimisation, data science, stochastic modelling, operations research or related disciplines, and an outstanding record leading academic/industry engagement. They will be expected to make a significant contribution to the shaping and building of operations research and other mathematics research fields of relevance to Industry, and to bring industry knowledge and expertise to bear on research training in mathematics and statistics.

1. Key Responsibilities

RESEARCH AND RESEARCH TRAINING

Make a significant contribution to the development of a translational research agenda in mathematics and statistics;
Support the establishment of effective collaborations between multidisciplinary groups within the School, across the university, and with national and international research partners, as required to support this agenda;
Develop effective collaborative interactions with relevant end-users, including Industry and government agencies to ensure researchers are given opportunities to engage in research that it highly relevant to industry.
INDUSTRY ENGAGEMENT
Source investment to commercialise university research and technologies, and play a lead role in facilitating that commercialisation;
Liaise effectively with external networks to foster collaborative partnerships with a specific focus on mobility activity – encouraging both industry and academic exchanges and work integrated learning;
Present the translation of research to the public to elevate public awareness of educational and scientific developments, and promote critical enquiry and public debate within the disciplines and the community;

Mentor staff and RHD students in the School of Mathematics and Statistics for effective industry engagement.
TEACHING AND LEARNING
Be a thought leader in advising the university and School of Mathematics and Statistics on relevance of curriculum and industry expectations of graduates.
OTHER
Actively participate in the University Professional Development Framework.
Occupational Health and Safety (OH&S) responsibilities as outlined in section 4.

2. Selection Criteria

the developing research programs.

ESSENTIAL

A PhD in mathematics, statistics or related discipline;
A strong background in mathematical or statistical research, with a focus on industrial mathematics, applied optimisation, data science, stochastic modelling, operations research or related disciplines;
Significant success in collaborating with academics to translate basic research into commercial outcomes including a focus on academic involvement in the commercialisation process;
An established network of influence with potential industry partners across the public, private and not-for-profit sectors;
Ability to work effectively in a complex science-based organisation and demonstrated leadership skills that include fostering emerging talent, motivating teams, and managing through influence rather than direct line management;
Demonstrated ability to listen to others, to actively contribute to debates that further the disciplines and the School, and to respond to changing priorities in a dynamic environment.
SPECIAL REQUIREMENTS

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.

Domestic and international travel may be necessary, depending on the requirements of

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/people/community/responsibilities-of-personnel

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

5. Other Information

SCHOOL OF MATHEMATICS AND STATISTICS

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 57 continuing teaching and research staff; 27 research only staff and consultants; 5 teaching specialists, 3 academic specialists; and 12 support staff. The School has over 100 casual and honorary staff. In 2016, there are 88 Research Higher Degree and 78 Coursework Master of Science students. Four 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 School. 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 hosts two ARC Centres of Excellence, has several ARC Laureate, Future and 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 States of America, most countries in Europe and the Asia-Pacific region.

The www address of the School of Mathematics and Statistics is http://www.ms.unimelb.edu.au

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 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.

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

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

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.

GROWING ESTEEM, THE MELBOURNE CURRICULUM AND RESEARCH 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.

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