



THE UNIVERSITY OF  
MELBOURNE

## POSITION DESCRIPTION

**Biological Optical Microscopy Platform**  
Faculty of Medicine, Dentistry and Health Sciences

### Platform Applications Specialist

<b>POSITION NO</b>	0045386
<b>CLASSIFICATION</b>	Level A
<b>WORK FOCUS CATEGORY</b>	Research Focused
<b>SALARY</b>	\$69,148 - \$93,830 p.a.
<b>SUPERANNUATION</b>	Employer contribution of 9.5%
<b>WORKING HOURS</b>	Full-time
<b>BASIS OF EMPLOYMENT</b>	Fixed Term position available for 12 months Fixed term contract type: Research
<b>OTHER BENEFITS</b>	<a href="http://about.unimelb.edu.au/careers/working/benefits">http://about.unimelb.edu.au/careers/working/benefits</a>
<b>HOW TO APPLY</b>	Online applications are preferred. Go to <a href="http://about.unimelb.edu.au/careers">http://about.unimelb.edu.au/careers</a> , under 'Job Search and Job Alerts', select the relevant option ('Current Staff' or 'Prospective Staff'), then find the position by title or number.
<b>CONTACT FOR ENQUIRIES ONLY</b>	Dr. Paul McMillan Tel +61 3 9035 3021 Email <a href="mailto:paul.mcmillan@unimelb.edu.au">paul.mcmillan@unimelb.edu.au</a>  <i>Please do not send your application to this contact</i>

For information about working for the University of Melbourne, visit our websites:  
[about.unimelb.edu.au/careers](http://about.unimelb.edu.au/careers)

## ***Position Summary***

A Platform Applications Specialist is required to work within the Biological Optical Microscopy Platform at the University of Melbourne. The Biological Optical Microscopy Platform provides support for researchers using high-end optical microscopes across a wide range of biological research areas.

The primary role of the Platform Applications Specialist is to provide expert advice to all platform users in experimental design, experimental applications and data analyses. The appointee will provide training and research support for one or more advanced optical microscopy applications (see essential criteria below). The appointee will also assist other platform staff in the day-to-day activities of the platform as required.

## ***1. Key Responsibilities***

### **1.1 RESEARCH AND RESEARCH TRAINING**

- ▶ Provide effective training of research staff & students on platform equipment
- ▶ Provide high-level expertise, advice and assistance to researchers to undertake research projects utilising platform equipment
- ▶ In collaboration with the research groups, contribute to the data generation/interpretation and manuscript drafting/submission of peer-reviewed journals.
- ▶ Develop quantitative image analysis tools for all platform users.
- ▶ Develop training content & workshops for advanced microscopy applications
- ▶ The production of conference seminar papers, publications and presentations at conferences and seminars where appropriate

### **1.2 LEADERSHIP AND SERVICE**

- ▶ Foster partnerships to advance research involving the Biological Optical Microscopy Platform
- ▶ Participate in community and professional activities related to the platform
- ▶ Effective demonstration and promotion of University values including diversity and inclusion and high standards of ethics and integrity
- ▶ 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**

- ▶ PhD (or equivalent experience) in the areas of Biology, Biophysics or Physics
- ▶ Demonstrated excellent verbal communication, written communication and interpersonal skills for effective research collaboration and engagement
- ▶ Demonstrated research expertise in one or more of the below advanced optical microscopy applications
  - Confocal Microscopy

- Fluorescence Lifetime Imaging Microscopy
  - Image Correlation Spectroscopy
  - Lightsheet Microscopy and Tissue Clearing
  - Super-Resolution Microscopy (with Adaptive Optics)
  - High-Content Imaging
  - Image Analysis
- ▶ Demonstrated ability to apply relevant research methodologies and perform quantitative data analysis
  - ▶ Demonstrated ability to produce high quality research outcomes as well as the ability to conduct research in association with other academic staff.
  - ▶ Demonstrated high-level organisational, communication and time-management skills, and a demonstrated ability to manage and respond to changing priorities and deadlines.

## 2.2 DESIRABLE

- ▶ Demonstrated experience of working in a platform or service environment
- ▶ Experience in working in a PC2 laboratory within a research environment.

## 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 ORGANISATION UNIT**

[www.microscopy.unimelb.edu.au](http://www.microscopy.unimelb.edu.au)

The Biological Optical Microscopy Platform provides research support for over 300 researchers at the University of Melbourne. The platform is responsible for managing twenty-one microscopes ranging from confocal, super-resolution, high-content imaging, multi-photon and lightsheet microscopes. In addition to this, the platform runs an extensive workshop & seminar series that is attended by over 700 researchers each year.

### **5.2 FACULTY OF MEDICINE, DENTISTRY AND HEALTH SCIENCES**

[www.mdhs.unimelb.edu.au](http://www.mdhs.unimelb.edu.au)

The Faculty of Medicine, Dentistry & Health Sciences has an enviable research record and is the University of Melbourne's largest faculty in terms of management of financial resources, employment of academic and professional staff, teaching of undergraduate and postgraduate (including research higher degree) students and the conduct of basic and applied research. The Faculty's annual revenue is \$628m with approximately 55% of this income related to research activities.

The Faculty has a student teaching load in excess of 8,500 equivalent full-time students including more than 1,300 research higher degree students. The Faculty has approximately 2,195 staff comprising 642 professional staff and 1,553 research and teaching staff.

The Faculty has appointed Australia's first Associate Dean (Indigenous Development) to lead the development and implementation of the Faculty's Reconciliation Action Plan (RAP), which will be aligned with the broader University – wide plan. To enable the Faculty to improve its Indigenous expertise knowledge base, the Faculty's RAP will address Indigenous employment, Indigenous student recruitment and retention, Indigenous cultural recognition and building partnerships with the Indigenous community as key areas of development.

### **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>