

Position Description

Postdoctoral Fellow

Position Number: 00043976
Position Title: Postdoctoral Fellow
Date Written: December 2018

Faculty / Division: UNSW Medicine
School / Unit: School of Medical Sciences
Position Level: Level A

ORGANISATIONAL ENVIRONMENT

UNSW is currently implementing a ten year strategy to 2025 and our ambition for the next decade is nothing less than to establish UNSW as Australia's global university. We aspire to this in the belief that a great university, which is a global leader in discovery, innovation, impact, education and thought leadership, can make an enormous difference to the lives of people in Australia and around the world.

Following extensive consultation in 2015, we identified three strategic priority areas. Firstly, a drive for academic excellence in research and education. Universities are often classified as 'research intensive' or 'teaching intensive'. UNSW is proud to be an exemplar of both. We are amongst a limited group of universities worldwide capable of delivering research excellence alongside the highest quality education on a large scale. Secondly, a passion for social engagement, which improves lives through advancing equality, diversity, open debate and economic progress. Thirdly, a commitment to achieving global impact through sharing our capability in research and education in the highest quality partnerships with institutions in both developed and emerging societies. We regard the interplay of academic excellence, social engagement and global impact as the hallmarks of a great forward-looking 21st century university.

To achieve this ambition we are attracting the very best academic and professional staff to play leadership roles in our organisation.

Values in Action: Our UNSW Behaviours

UNSW recognises the role of employees in driving a high performance culture. The behavioural expectations for UNSW are below.



Values in Action
 Our UNSW Behaviours



Builds
Collaboration



Embraces
Diversity



Displays
Respect



Demonstrates
Excellence



Drives
Innovation

OVERVIEW OF RELEVANT AREA AND POSITION SUMMARY

UNSW Medicine is a national leader in learning, teaching and research, with close affiliations to a number of Australia's finest hospitals, research institutes and health care organisations. With a strong presence at UNSW Kensington campus, the faculty have staff and students in teaching hospitals in Sydney as well as regional and rural areas of NSW including Albury/Wodonga, Wagga Wagga, Coffs Harbour and Port Macquarie.

The School of Medical Sciences (SoMS) is the largest School within UNSW Medicine, and one of the largest at UNSW. The School is based largely within the Wallace Wurth (Medicine) Building on the Kensington campus, but also includes the Museum of Human Disease in the Samuels Building and the UNSW Lifestyle Clinic on High Street, Randwick.

The Single Molecule Science Unit's aim is to obtain future research leaders to develop novel conceptual and experimental approaches for challenging problems in biology and medicine. As it is now possible to map interactions of individual molecules in time and space within the cellular and tissue architecture and thus link molecule processes to functional outcomes, the Unit's goals is to turn this vision into reality.

The Cell Membrane Biology Research Group is part of the Single Molecule Science Unit and is based in the Lowy Cancer Research Institute. The group focus is to investigate signal transduction process and the organisation of the plasma membrane with advanced fluorescence microscopy methods and is part of a larger cohort of researchers with expertise in super-resolution fluorescence microscopy, image analysis and cell biology.

The role of Postdoctoral Fellow reports to the Scientia Professor, and has no direct reports.

RESPONSIBILITIES

Specific responsibilities for this role include:

- Design and perform research experiments in the area of advanced fluorescence microscopy and cell biology
- Participate directly in the study design and implementation
- Analyse and interpret research data and communicate findings to the Project Leader
- Assist in the preparation of manuscripts, abstracts, posters and grant applications, as appropriate
- Publish and present research to academic and industry conferences (i.e. internationally and domestically), as appropriate
- Collaborate with project researchers, industry partners and research students and participate in project meetings and discussions
- Train and supervise research assistants, as required
- Perform administrative duties as required associated with the function of the research group
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others

SELECTION CRITERIA

- Degree in Cell Biology, (Bio) Physics, (Bio) Chemistry, or related discipline
- Demonstrated experience in advanced fluorescence microscopy and analysis, preferable single molecule imaging

- Demonstrated experience in tissue culturing and transfection
- Demonstrated experience in molecular biology and cell biology
- A track record in publishing scientific research papers in a relevant area or field, and experience in grant writing
- Excellent oral and written communication skills and attention to detail with relevant computing and data analysis skills
- Proven ability in working effectively as a member of a multidisciplinary team
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training

PRE EMPLOYMENT CHECKS REQUIRED FOR THIS POSITION

- Verification of qualifications

It is not the intention of the position description to limit the scope or accountabilities of the position but to highlight the most important aspects of the position. The aspects mentioned above may be altered in accordance with the changing requirements of the role.