POSITION DESCRIPTION

Post-doctoral Fellow

Position Level: A  
Faculty/Division: Medicine & Health  
Position Number: 00098865  
Original document creation: 5/11/ 2021

Position Summary
A Post-Doctoral Fellow (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The Post-doctoral Fellow will work as part of a team in the field of ocular research with a major focus on corneal homeostasis, corneal disease, corneal stem cell biology, and developing methods for transplanting stem cells as a therapeutic option to treat patients with blindness caused by severe corneal disease.

The role of Post-Doctoral Fellow reports to the Professor and has no direct reports.

Accountabilities
Specific accountabilities for this role include:

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.
- Conduct research (as per the norms of the discipline) and/or enable research the team to create scholarly outputs that are recognised by peers.
- Undertake specific research project/s under the guidance of a research leader and contribute to development of research activities.
• Support the dissemination of research outcomes through appropriate channels and outlets.
• Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.
• Participate in and/or present at conferences and/or workshops relevant to the project as required.
• Assist in the preparation of research grants, fellowships and research ethics applications, and annual reports.
• Assist with the supervision of research students and research assistants in the research area where required.
• Establish and maintain collaboration with potential and current national and international research partners.
• Perform other duties as directed by the Supervisor.
• Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
• 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.

Skills and Experience
• A PhD in medical sciences, preferably in ocular, more specifically cornea or a related field.
• Demonstrated research experience in stem cell biology and assays pertinent to this discipline including but not limited to; stem cell culture, isolation and cloning, flow cytometry, Western blotting, FACS sorting, immunofluorescence, qRT-PCR, single cell RNA sequencing, transcriptomics, microarray technology and scanning confocal and light-sheet microscopy.
• Demonstrated experience in image analysis (e.g. Zen, Slidebook, Imaris, ImageJ, etc.).
• Demonstrated research experience with small laboratory animal handling, surgery and clinical monitoring.
• Excellent quantitative research and analytical skills with demonstrated understanding of experimental design and execution, and ability to establish new assays and technologies independently.
• Proven commitment to proactively keeping up to date with discipline knowledge and developments.
• Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
• Demonstrated track record of publications and conference presentations, including the ability or potential to attract external research funding, relative to opportunity and related to the field.

• Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.

• Evidence of high-level organisation skills, meticulous and systematic approach to research activities, high-level of attention to detail, ability to prioritise tasks, meet deadlines, and manage time effectively.

• Proven understanding of statistics and experience in the use of statistical packages for use in data analysis (e.g. Prism, SPSS, MATLAB, R, etc).

• Demonstrated experience in staff and student supervision and teaching.

• Evidence of highly developed interpersonal skills.

• Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.

• An understanding of and commitment to UNSW’s aims, objectives and values in action, together with relevant policies and guidelines.

• Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

• Understand and comply with the statutory privacy and ethical requirements for research on humans and animals.

Pre-employment checks required for this position
• Verification of qualifications

About this document
This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.