POSITION DESCRIPTION

POST-DOCTORAL FELLOW

POSITION LEVEL  | Level A
FACULTY/DIVISION | Medicine
POSITION NUMBER  | 00090211
ORIGINAL DOCUMENT CREATION | 28/01/2021

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 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 Post-Doctoral Fellow will provide support across a number of ongoing projects in various areas of research. The Post-Doctoral Fellow will drive a research project in the Jacques group, experimentally support other students and researchers in the group, help define and drive new research directions aligned with the overall goals of the group and the EMBL Australia Node in single molecule science unit.

The role of Post-Doctoral Fellow reports to Scientia Senior Lecturer 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 teams to create scholarly output that is 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.
• Formulate study design, programmes, and implementation timelines.
• Participate in and/or present at conferences and/or workshops relevant to the project as required.
• Provide scholarly supervision and mentor undergraduate, honours level and post graduate research students and actively provide guidance on research methods.
• Collaborate effectively and maintain strong relationships with relevant researchers within the institution, stakeholders and policy makers and contribute to the teaching program within the field of research expertise.
• Develop proposals for national and international competitive research grant funding.
• Complete administrative functions primarily connected to area of research.
• 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 Structural Biology or related discipline, and/or relevant work experience.
• Demonstrated expertise in cryo-electron tomography and/or single particle cryo-electron microscopy sample preparation, data acquisition, and structural analysis.
• Demonstrated expertise and experience in recombinant protein production methods and purification techniques.
• Demonstrated expertise in molecular biology techniques.
• Experience with tissue culture including lentiviral transduction would be advantageous.
• Basic understanding of virology would be advantageous.
• 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 relative to opportunity.
• Evidence of highly developed interpersonal skills and demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
• Demonstrated ability to communicate and interact with a diverse range of stakeholders and students with relevant data analysis skills.
• 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.

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.