Position Description

Post-Doctoral Fellow

Prince of Wales Clinical School

Never Stand Still | Human Resources

Level:	A	**Date:**	November 2016
School:	POWCS	**Faculty:**	UNSW Medicine
Written by:	Dr Jason Wong		

POSITION SUMMARY

The Post-doctoral Fellow will work on a range of research projects relating to the study of mechanisms of mutation formation in cancer and the impact of these mutations on cellular function. These projects build on recent research by Dr Jason Wong's team described in *Nature (*https://doi.org/10.1038/nature17437). The successful applicant will be responsible for computational and statistical analyses of cancer genomics data. There will also be opportunities to carry out laboratory-based experiments for a candidate with appropriate skills.

ORGANISATIONAL ENVIRONMENT

Overview of the Faculty/School/Divisional Work Unit

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 Prince of Wales Clinical School occupies the Edmund Blacket Building at the Prince of Wales Hospital and the Lowy Cancer Research Centre. Through its presence as part of the Biomedical Science precinct the School is able to fully support virtually all contemporary forms of biomedical research.

The position will be based within the Adult Cancer Program (ACP) in the Lowy Cancer Research Centre and part of the Bioinformatics and Integrative Genomics research team. The Lowy Cancer Research Centre is a multidisciplinary laboratory research environment with several independent research groups working closely together. The ACP encompasses a unique mix of academic, clinical and research staff.

Statistics

The Prince of Wales Clinical School consists of approximately:

- 46 Academics
- 34 professional staff
- 400 Conjoint
- 320 Undergraduate

- 60 Honours and ILP

For further information, please visit: http://powcs.med.unsw.edu.au/ and the Bioinformatics and Integrative Genomics Group web page http://powcs.med.unsw.edu.au/research/adult-cancer-program/research-groups/bioinformatics.

Reporting Relationships

Supervisor's title:	Team Leader, Bioinformatics Group
Other positions reporting to the supervisor:	Academic research staff
Positions reporting to this position:	None

KEY DUTIES & RESPONSIBILITIES

- Conduct productive research on the research projects relating to the study of mechanisms of mutation formation in cancer and the impact of these mutations on cellular function
- Conduct computational and statistical analyses of cancer genomics data and ensure effective data management
- Maintain documentation of data analysis pipelines in collaboration with the team.
- Gain international peer recognition through original publications in quality journals and effective presentations at national and international scientific meetings.
- Contribute effectively and participate at project meetings, ensuring that deadlines and milestones are identified and met.
- Ensure troubleshooting of bioinformatics procedures is maintained and that standard operating procedures for research methods are prepared as required.
- Participate in collaborative projects, manuscript and publication of research grants and grant writing
- Effective and regular communication and engagement with internal and external stakeholders.
- Adhere to applicable Codes of Conduct: UNSW Code of Conduct, UNSW Research Code of Conduct and relevant policies and regulations pertinent to the position.
- Maintain confidentiality in all matters relating to the Clinical School.
- Complete other duties as requested by the supervisor, relevant and consistent with the position.
- 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

- A PhD (or near completion) in Molecular Biology, Computational Biology, Bioinformatics or a related discipline and a competitive track record in research in these fields
- Demonstrated experience in the use of scripting languages such as Python, shell script and/or the use of statistical packages such as R.

- Familiarity with code management and documentation using repositories such as Github
- Demonstrated record of conducting research in the form of first authored peer-reviewed publications and oral presentations at national/international conferences.
- Be highly self-motivated with a demonstrated ability to work independently and collaboratively to implement research goals within specified time periods.
- Highly developed interpersonal, written and oral communication skills, and a proven ability to assist with the training of others, particularly research students.
- Ability and capacity to implement required UNSW health and safety policies and procedures.

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.