Position Summary

The Bioinformatician is responsible for developing and implementing a Genomics Workflow Platform (GWP) on the UNSW HPC, integrated with data production at the Ramaciotti Centre. This role will involve implementing data analysis workflows for gene expression and epigenomics (RNA-seq, ChIP-seq, ATAC-seq), including single-cell RNA-seq, as well as microbial genomics and metagenomics. It will also require the development of a user-friendly web based platform to facilitate easy access of the GWP workflows.

The UNSW GWP will be structured around three main themes:

- RNA and Regulatory Genomics
- Single-cell Genomics
- Microbial and Evolutionary Genomics

The role of Bioinformatician reports to Manager – Research HPC, and has no direct reports.

Accountabilities

Specific accountabilities for this role include:

- Work closely with the research technology group and the academic leads to develop and implement the UNSW GWP.
- Implement the workflows on UNSW HPC, including integration with data production at the Ramaciotti Centre, data archiving on the UNSW Data Archive, and submission to public data
repositories in alignment with FAIR principles (Findability, Accessibility, Interoperability, and Reuse).

- Develop a user-friendly interface for the UNSW GWP.
- Develop online training modules for the UNSW GWP.
- 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

- Bachelor degree in bioinformatics and computational biology.
- Experience or ability to learn Common Workflow Languages.
- Experience with interactive webtool development is a plus.
- Basic level understanding of genomic data.
- Excellent oral and written communication skills.
- Knowledge of EEO/AA principles.
- 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.

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.