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## POSITION DESCRIPTION

# Post-doctoral Fellow - Diagnostic in HIV & Hepatitis C (HCV)

Faculty/Division	Medicine & Health
Classification Level	Academic A
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	00201081
Shiftwork status	NOT SHIFTERWORKER
Allowances	Nil
On call arrangements	Nil
Original document creation	6 August 2024

### Position Summary

The Kirby Institute is a world-leading health research institute at UNSW Sydney. We work to eliminate infectious diseases, globally. Our specialisation is in developing health solutions for the most at-risk communities. Putting communities at the heart of our research, we develop tests, treatments, cures and prevention strategies that have the greatest chance of success.

As a key member of the team, the Post-doctoral Fellow will work with all investigators, UNSW, and pathology services in introducing HIV and Hepatitis C (HCV) data for use in public health and clinical settings. This position will work with other research staff to develop and teach novel laboratory diagnostic techniques being developed as part of genomic surveillance within the H2Seq program. The scientist will develop training material for other diagnostic laboratories for the amplification, sequencing, and analysis of HIV and HCV genomes. The Post-doctoral Fellow will need to have expertise in molecular virology research techniques and have experience in PC2 containment facilities, as well as good communication skills.

This role will be physically based at SAVID Labs, UNSW Labs and report to the Director of SAVID and the H2Seq Project Manager.

## Accountabilities

Specific accountabilities for this role include:

- Engage in individual and/or collaborative research in a manner consistent with disciplinary practice.
- Independently develop and evaluate laboratory training material for H2Seq data inputs (genomic data, metadata and sequence data) via the Kirby, SAViD and UNSW laboratories
- Assess standard operating procedures and protocols to be used in diagnostic settings, ensuring accurate records of data and procedures are maintained.
- Liaise with other researchers, physicians, and diagnostic laboratories for the implementation of the sequencing procedures developed through the H2Seq program and in diagnostic laboratories.
- Establish a personal research portfolio and start developing independent research proposals.
- Prepare ethics committee and institutional bio-safety committee submissions.
- Mentor and guide students and colleagues and develop the next generation of academics through involvement in supervision of HDRs (as per the norms of the discipline).
- Contribute to the development of manuscripts relating to this research for publication in high impact journals, and assist in the preparation of patent applications
- Contribute to and prepare concept sheets, study designs, as well as proposals (inclusive of budgets) and reports to various granting bodies
- Prepare and present research findings at local, national and international seminars and conferences as required.
- Contribute to and perform quality control (QC) on laboratory pipelines to ensure accuracy, reliability, and compliance with established standards and protocols.
- 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 psychosocial or physical health and safety of yourself or others.

## Skills and Experience

- PhD in virology or molecular biology (or a related/relevant discipline) or an equivalent level of knowledge gained through any other combination of education, training, or experience.
- Demonstrated research experience in molecular virology research, including experience in whole genome sequencing for viral pathogens, as well as sequence computing analysis.
- Experience in diagnostic laboratory and applied research.
- Ability to work in a team, across academic and applied pathology sites at university and diagnostic settings.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.

- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- Demonstrated track record of publications and conference presentations relative to opportunity.
- Evidence of highly developed interpersonal and organisational skills.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health & safety (psychosocial and physical) 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.