

KWAZULU-NATAL RESEARCH INNOVATION
AND SEQUENCING PLATFORM

WE ARE

HIRING

2025 INTERNSHIP PROGRAM

Calling all Masters*/Hons/B.Tech Students

1 YEAR INTERNSHIP PROGRAMME

Gain hands-on experience in genomics lab techniques, lab support and data analysis

CLOSING DATE: 22 November 2024

SEND YOUR CV AND COVER LETTER TO :

naidooz@ukzn.ac.za

KRISP, K-RITH TOWER BUILDING,
NELSON R MANDELA SCHOOL OF MEDICINE,
UNIVERSITY OF KWAZULU-NATAL,
719 UMBILO ROAD, DURBAN, SOUTH AFRICA

BACKGROUND

In partnership with DIPLOMICS, KRISP is offering two, 1-year internships. (full-time) The interns will play an important role in advancing our understanding of genomics in infectious diseases. They will have the opportunity to work alongside a dedicated team of scientists, participating in cutting-edge projects that use next generation sequencing data to uncover insights into various infectious diseases such as HIV, TB, HCV, HBV, Influenza A/B, and RSV, to name a few.

This opportunity will give the successful applicants exposure to a working laboratory at the forefront of genomics research in South Africa.

RESPONSIBILITIES

The duties of the intern will include:

1. Sample Preparation and Processing

- Assist in DNA/RNA extraction
- Support sequencing processes, including library preparation, quality control checks and sequencing.

2. Quality Control

- Assess sample integrity and sequencing quality using established protocols.
- Participate in troubleshooting issues that arise during processing.

3. Bioinformatics Analysis

- Perform basic bioinformatics tasks, such as:
Assessing sequence quality and performing trimming and alignment of sequences.
Submitting genomic data to online databases, including the Stanford HIV Drug Resistance Database.

4. Collaboration on Research Initiatives

- Assist in the design and execution of experiments, working closely with researchers.
- Contribute to team meetings and discussions, sharing insights and observations.

5. Literature Reviews

- Synthesize current research findings and present summaries to the team to identify research gaps.

REQUIREMENTS

The ideal candidate should meet the following requirements:

- Be in possession of a Masters (preferred)/Honours or B.Tech degree in genetics, molecular biology, virology, medical science, or a related field.
- Practical experience in molecular laboratory techniques. These include basic laboratory techniques, including pipetting, DNA/RNA extraction, and experience with laboratory equipment.
- Candidates must demonstrate strong attention to detail in conducting experiments and analysing results, along with the ability to collaborate effectively with team members.



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