WITS HEALTH CONSORTIUM

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NATIONAL INSTITUTE FOR COMMUNICABLE DISEASES
Division of the National Health Laboratory Service

AIRU
SAMRC Antibody Immunity Research Unit

VACANCY

Job title:	Medical Scientist (Bioinformatics)
Type:	☐ Permanent ☒ Fixed Term ☐ Temporary
Main purpose of the job:	Perform advanced analysis and interpretation of data produced from next generation sequencing (NGS) systems and develop webserver tools for data analysis.
Location:	AIRU, Sandringham, Johannesburg
Closing date:	02 January 2025
Submit detailed CV to:	Vacancies12@witshealth.co.za
Advert reference number:	DM – 007 -Medical Scientist (Bioinformatics)
In accordance with our Employment Equity goals and plan, preference will be given to suitable applicants from designated groups as defined in the Employment Equity Act 55 of 1998 and subsequent amendments thereto.	

Key performance areas
Perform advanced analysis and interpretation of data produced from next generation sequencing (NGS) systems.
Develop, improve, modify and operate analysis pipelines for NGS datasets.
Conduct and initiate computational based research in the area of B cell repertoire responses to viral infection and vaccination.
Work closely with researchers and collaborators to generate/provide data analysis reports and perform custom analyses as requested.
Participate in training staff/students/collaborators in bioinformatics skills.

Required minimum education and training
Matric.
Masters level degree in Bioinformatics or related relevant field.

Required minimum work experience and abilities
Strong bioinformatics analysis and scripting experience including command line tools and proficiency with a scripting language (e.g. R or Python).
Prior experience conducting analyses on a remote computer cluster using the linux command line.
Ability to manage code and projects using version control systems (e.g. git, GitHub or BitBucket).
Prior experience with workflow managers (e.g. Snakemake and Nextflow) and their application to biological data processing.
Prior experience using and building tools using containerization platforms (e.g. Docker and Singularity).

Desirable additional education, work experience, and abilities
Experience analysing RNAseq data, especially using the 10X Genomics CellRanger application.
Good understanding of immunology, especially B cell repertoire responses to viral infections and vaccination.
Proficiency in other scripting languages eg: Perl, Java, Julia.
Ability to work as part of a diverse team, and assist wet-lab scientists with bioinformatic analyses.
Ability to write and publish findings in scientific journals.

Should you be interested in applying for this vacancy, please send an email to vacancies12@witshealth.co.za
The subject heading of the email must read **DM – 007 -Medical Scientist (Bioinformatics)** and the job title of position applying for. Please include the following documentation:
- A cover letter (maximum one page) that clearly states which vacancy you are applying for
- A detailed CV