

BUSINESS UNIT: NICD  
DISCIPLINE: CENTRE FOR VACCINES AND IMMUNOLOGY  
LOCATION: SANDRINGHAM  
POSITION: MEDICAL SCIENTIST (FIXED TERM CONTRACT: 9 MONTHS)  
PAY GRADE: MSI  
REFERENCE NUMBER: NICDCDC0721/001-01

**To conduct research relevant to the COVID-19 environmental surveillance, particularly detection of genetic variants, and mutational analysis of SARS-CoV-2.**

#### Key Job Responsibilities

■ Conduct laboratory work including PCR and sequencing using Sanger sequencing method and next generation sequencing (NGS) ■ Analyse and report data, in particular related to bioinformatics analysis of SARS-CoV-2 lineages, variants, and mutational analysis ■ Develop appropriate tests and improve existing laboratory tests in order to optimize and enhance the provision of diagnostic services ■ Do diagnostic test development and to assist in troubleshooting related to diagnostic testing ■ Assist in troubleshooting of routine tests in order to solve problems timeously and to avoid unnecessary delays in provision of test results ■ Contribute to the formal teaching and assessment of students and interns to ensure that their knowledge and understanding of the relevant discipline meets academic/degree requirements ■ Perform total quality management of the research laboratory to ensure accurate and reliable results ■ Conduct relevant research (basic and applied) that promotes departmental interests in order to gain new knowledge and improve understanding in line with the NHLS's goal of becoming a world-class research organisation.

#### Minimum Requirements and Key Competencies

■ Master's degree in Science /PhD in Medical Science ■ Three (3) years post-qualification experience in molecular biology ■ Experience in basic bioinformatics analysis ■ Skills in PCR and its related techniques ■ Skills in data analysis and bioinformatics analysis ■ Project leader on at least 1 project protocol ■ Publish peer reviewed articles ■ Training and co-supervision of staff, interns scientist, technologists and students including involvement in the development of training programs or other tools ■ Good Laboratory Practice and Quality Assurance experience beneficial ■ Research methodology ■ Scientific writing and presentation skills and experience ■ Specific laboratory techniques especially molecular techniques e.g. PCR ■ Computer literacy ■ Communication skills (verbal and written) ■ Troubleshooting skills ■ Interpersonal skills ■ Data management, analysis and interpretation skills ■ Attention to detail, and time management skills.

Enquiries may be directed to Kgaugelo Mkwazi @ 011 386 6090, email application to [Recruiter3@nicd.ac.za](mailto:Recruiter3@nicd.ac.za)