



University of Cape Town Lung Institute CENTRE FOR LUNG INFECTION AND IMMUNITY

MEDICAL BIOINFORMATICIAN

You are invited to apply for a research scientist post based at the Centre for Lung Infection and Immunity (CLII), Department of Medicine, University of Cape Town. The CLII has an exemplary track record of high-quality publications and research (<https://lunginstitute.co.za/liiu/>). Thus, we will only consider candidates with a strong research track record.

The project will focus on understanding the biology of infectiousness and transmission of tuberculosis within the community. Different biological samples will be used for host and bacterial proteomic and transcriptomic analysis. These data will be combined with other clinical parameters to identify a biosignature associated with tuberculosis infectiousness.

Minimum Requirements:

- An MSc or PhD degree in *biomedical* field with at least two years of bioinformatics experience.
- A degree in bioinformatics or equivalent qualification.
- Thorough knowledge and experience in command line and any of the following (or similar): R, Python (biopython), Perl (bioperl) or C.
- Experience with RNA/DNA/protein sequence analysis, machine learning and biostatistics (e.g., Cox regression).
- Excellent interpersonal and communication skills (verbal and written).
- Experience in technical report writing.

Responsibilities include (but not limited to):

- Managing a research project.
- Developing and writing research proposals.
- Performing genomic sequence and other OMIC analyses: from raw data quality checks and data cleaning to differential expression (and similar analyses for DNA and protein).
- To assist in the biostatistical analyses of other projects within the Centre.

Application procedure:

To **apply**, interested applicants are requested to submit a letter of motivation and updated CV, including the names and contact information of two contactable references to: pat.wileman@uct.ac.za

Applications will only be accepted via email

Telephone: + 27 21 404 7654

Website: www.lunginstitute.co.za

Reference (in subject line): "Research Scientist Application – Bioinformatician" **Closing date:** 15 December 2019

Only shortlisted candidates will be contacted. Should you not receive a response within 30 days of the closing date, please consider your application unsuccessful.

***Please note: This position is not on UCT conditions of service.**