



**Dr Felix Dube**  
The Royal Society/  
The African Academy of Sciences FLAIR Fellow  
Department of Molecular & Cell Biology  
Faculty of Science  
Tel: +27 (0) 21 650 3861  
[sizwe.dube@uct.ac.za](mailto:sizwe.dube@uct.ac.za)

## Full-Time Postdoctoral Fellowship

A post-doctoral position is being offered by the Dube lab in the Department of Molecular and Cell Biology at UCT. Research in the Dube lab includes the exploration bacterial pathogen genomics to understand patterns of colonization, transmission and genetic associations with disease. Focus on mucosal pathogens associated with respiratory and skin infection and particularly those which have a major disease burden in resource-poor settings. Through ongoing collaborations, the Dube Lab further seeks to explore how microbial interactions in diverse ecological niches predispose to disease

### Scope of the research

The incumbent's main purpose is to (i) conduct large scale analyses on a collection of *Streptococcus pneumoniae* genomes collected as part of a South African longitudinal birth cohort to infer key biological insights; (ii) Curate a project database to ensure provision of high-quality data to project partners and broader community; (iii) Report the project findings by writing manuscript, presenting in project meetings and scientific conferences.

### Conditions of appointment:

We are looking for candidates who:

1. Have completed their PhD and equivalent experience in statistical genetics, microbial genomics, computational biology, or a related health discipline within the past 5 years.
2. Have demonstrated experience in analyzing microbial genomic data.
3. Have not held full-time permanent academic or professional posts
4. Have experience and a willingness to mentor postgraduate student
5. Are focused, hardworking, flexible and can work independently.

### Core accountabilities [in approximate order of importance to role purpose]:

1. Apply a broad range of data analysis tools on a large genomic dataset of *S. pneumoniae* and *Staphylococcus aureus* to deliver project aims.
2. Effectively communicate research ideas, methods and results. Write up research for publication and present at local and international meetings.
3. Keep up-to-date with relevant literatures and current techniques for the analysis of microbial whole genome sequence data, discuss data analysis approaches.
4. Assist in the development of future research projects and establishment of further working collaborations.
5. As part of the successful candidate's professional development, provide mentorship and co-supervision for postgraduate students
6. To comply with the University's approved policies, procedures and practices for the postdoctoral sector

### Tenure and value:

6 months, full time, renewable to 1-year contingent on satisfactory progress. The value of the Fellowship will be between R220,000 and R300,000 per annum. The fellowship is compliant with the SARS policies/rules and is therefore exempt from taxation. The Fellowship carries no fringe benefits.

### Application procedure:

Please send through a letter of application stating areas of expertise and research interests, a full CV, copies of academic transcripts, and the names of two referees in a **single pdf file** to ([sizwe.dube@uct.ac.za](mailto:sizwe.dube@uct.ac.za))

Please ensure the title (Postdoctoral Fellowship) and reference number (DLAB2021) are indicated in the subject line and that the entire application is sent by the **30<sup>th</sup> July 2021**.

*The University of Cape Town reserves the right to:*

- Disqualify ineligible, incomplete and /or inappropriate applications,
- Change the conditions of the award or to make no awards at all..