

Biostatistics Group
Postdoctoral fellowship in Biostatistics
Specializing in Statistical Simulation

The Division of Epidemiology & Biostatistics at UCT is seeking a Postdoctoral Fellow in Biostatistics to conduct research developing individual stochastic simulation models relating to HIV, ART, and viral load. The successful candidate will have skills in programming and biostatistics, with specific experience using R software to build simulation models. Experience with Rcpp and/or C++ as well as the package 'shiny' will be beneficial. He/she will join the Division of Epidemiology & Biostatistics ([www.http://www.publichealth.uct.ac.za/phfm_epidemiology-and-biostatistics](http://www.publichealth.uct.ac.za/phfm_epidemiology-and-biostatistics)), which forms the centre of biostatistics activities in the Faculty.

Academic Conditions of Award:

The successful candidate must be in possession of a PhD or equivalent degree in a relevant area (Computer/Data Science, Statistics, Biostatistics), with exposure to biostatistics. The candidate must provide evidence of excellent R programming skills.

The research to be undertaken will include:

- extension of an existing simulation model to incorporate new data including effects of DTG based ART regimens, and downstream statistical analysis and data interpretation;
- optimising simulation model by re-coding and/or incorporating Rcpp/C++ components;
- parallelisation of the simulation model;
- if interested, the incumbent will have opportunities to lead author manuscripts and other outputs

General Conditions of Award:

- (i) Only individuals who have achieved the doctoral degree within the past 5 years are eligible to apply
- (ii) Applicants may not previously (since their PhD) have held full-time professional or academic positions
- (iii) The successful candidate may, as part of their professional development, be required to participate in departmental activities such as limited teaching and supervision and duties incidental thereto
- (iv) The successful incumbent will be required to comply with the University's approved policies, procedures and practises for the postdoctoral sector.

Value and tenure:

The value of the fellowship is ZAR 300 000 per annum (non-taxed). No benefits or travel allowances are included in the value of the fellowship. The fellowship is tenable for 1 year with the possibility for renewal and/or re-appointment for a second year, dependent on performance.

Application process:

Applications and inquiries should be submitted to A/Prof Maia Lesosky (maia.lesosky@uct.ac.za). To apply, please e-mail a letter of application stating areas of expertise, research interests, and experience, a CV including a list of publications, code repositories, copies of academic transcripts, and names (and contact details) of at least two academics who have taught, supervised or worked alongside the applicant.

Only shortlisted candidates will be contacted. A competency evaluation may be applied.

Closing date for applications: 31 Jan 2020

The University of Cape Town reserves the right to disqualify ineligible, incomplete and/or inappropriate applications. The University of Cape Town reserves the right to change the conditions of award or to make no awards at all.