



ADVERT: BMGF-MASHA POSTDOCTORAL FELLOWSHIP in Mathematical Modelling for Malaria Elimination in Southern Africa

Closing date: 5 September 2022. Applications received after the closing date will not be considered.

The Modelling and Simulation Hub, Africa (MASHA), a research group at the University of Cape Town (www.masha.uct.ac.za) is offering Postdoctoral fellowships to support a Bill and Melinda Gates Foundation (BMGF) funded project entitled 'Malaria Modelling and Analytics: Leaders in Africa (MMALA)'.

With a geographic focus in Southern Africa, the overall aim of the research project is to grow local capacity for malaria model development through increasing the number of PhD- and post-doctoral trained mathematical modellers with malaria expertise in the Elimination 8 countries working to eliminate malaria by 2030.

Candidates are sought from Angola, Botswana, Eswatini, Mozambique, Namibia, South Africa, Zambia, Zimbabwe to conduct postdoctoral research on projects linked to National Malaria Control Programme policy priorities. These could include, for example, using malaria modelling to estimate the path to elimination, assessing the impact of artemisinin resistance and optimising sub-national tailoring of interventions.

The successful candidates will form part of an inter-disciplinary research team from the University of Cape Town, the Elimination 8 Initiative, the Clinton Health Access Initiative (CHAI), Applied Centre for Climate and Earth Systems Science (ACCESS), Oxford University and malaria experts from the region.

We are looking for a person with a PhD in mathematics, statistics, public health, economics, computer science, or related field. Candidates must be able to demonstrate strong quantitative and programming skills, have experience working with large data sets and have knowledge of epidemiology. Prior experience with mathematical disease modelling would be of advantage.

Conditions of Award

- The fellowship is only available to individuals who have achieved the doctoral degree within the past five years.
- Applicants may not previously have held any full-time academic or professional posts.
- The successful candidate will be required to register as a Postdoctoral Research Fellow at the University of Cape Town.
- The successful candidate will be required to comply with the university's approved policies, procedures and practices for the postdoctoral sector.

Value and tenure

The value of the Postdoctoral Research Fellowship is R350,000 per annum for one year. The fellowship does not include any benefits. The fellowship is compliant with the South African Revenue Service policies/rules and is therefore exempt from taxation.





Preferred starting date is 13 February 2023.

Application Process

To apply, send a letter of application, a CV including a list of publications, conference presentations and software expertise, together with copies of academic transcripts, a copy of the relevant thesis (if no publications have emerged from this work yet), and names (and contact details) from two academics who have taught, supervised or worked alongside the applicant.

Applications (preferably by email) should be sent to:

Ms Fadza Munyanyi, Modelling and Simulation Hub, Africa (MASHA), Department of Statistical Sciences, University of Cape Town, Rondebosch 7701, South Africa, fadzai.munyanyi@uct.ac.za
BY NO LATER THAN 5 September 2022

Selection process

Selection of eligible candidates will be made by the team of project leaders. Applications that are incomplete, late or inappropriate will be disqualified. The University of Cape Town reserves the right to: disqualify ineligible, incomplete, inappropriate and/or late applications, and to change the conditions of award or to make no awards at all.



APPROVED

