CALL ONLY OPEN FOR TANZANIANS

PhD Candidate in mathematical Modelling

JOB DESCRIPTION

With funding from the Bill and Melinda Gates Foundation, we have established the African Consortium in Modelling for Effective Vector Control (ACoMVeC) comprising of several international research institutions. Our objective is to support capacity-building efforts for mathematical modelling across sub-Saharan Africa; with a specific focus on malaria vector control. We are therefore recruiting curious and highly motivated individuals who want to develop statistical and mathematical modelling methods for vector borne disease research. As a PhD Candidate you will explore the fascinating potential of mathematical modelling to support disease control programmes in a welcoming and proactive atmosphere, together with a diverse group of researchers.

The African Consortium in Modelling for Effective Vector Control (ACoMVeC) is therefore seeking outstanding and highly motivated PhD candidates to develop mathematical methods to improve malaria vector control in Africa.

You will work on a PhD project in your home country under the supervision of local and international mentors with coordination of an academic Director. You will develop statistical or mathematical methods, apply them to malaria datasets and interpret the results with the aim of supporting efforts to control malaria vectors. The studentship is funded for three (3) years. During this period, you will also be encouraged to participate in relevant group meetings, conferences, workshops and seminars; and to communicate your findings through publications in peer-reviewed journals.

REQUIREMENTS

- You already hold a Master's degree in infectious disease epidemiology, population biology, mathematics, statistics, econometrics, computational Biology or a similarly quantitative discipline.
- You have a strong background in mathematics or statistics.
- You have experience in programming and data analysis.
- You have an interest in medicine and biology.
- You have excellent writing and communication skills.
- Prepared to work in one of the partner countries stated above
- Demonstrable commitment to long term career in Africa
- Demonstrable record of designing and implementing research projects
- Demonstrable commitment to a career in public health
- To have already published in peer reviewed journals would be desirable
- Willingness to travel throughout the partner research institutions
- Willingness to work as part of an interdisciplinary team
- Able to effectively communicate in English

- Ability to work in multi-cultural and multi-disciplinary environments

For any questions or if you are interested in the programme send a motivation letter (specify your country of residence and of not more than 500 words) and your CV in a single file to the following address: **acomvec@crid-cam.net**

Deadline for receiving applications is **30th October 2022 at 12:00pm GMT West African Time**

Partner Institutions:

1. CRID, Cameroo
2. Ifakara Health Institute, Tanzania
3. IRSS, Burkina Faso
4. Imperial College London, UK
5. Institute of Disease Modelling, BMGF, USA
6. PAMCA, Kenya
7. UVRI, Uganda
8. MAC, Malawi
9. INRB, DRC
10. GAEC, Ghana
11. AIMS, Senegal