

## VACANCY ANNOUNCEMENT

### Job Summary

**Position:** PhD Training Opportunities (2 posts)  
**Reports To:** Program Coordinator  
**Work Station:** Dar es Salaam  
**Apply By:** July 5<sup>th</sup> 2022

### Institute Overview

**Ifakara Health Institute (IHI)** is a leading research organization in Africa with a strong track record in developing, testing and validating innovations for health. Driven by a core strategic mandate for research, training and services, the Institute's work now spans a wide spectrum, covering biomedical and ecological sciences, intervention studies, health-systems research and policy translation.

**The Swiss Tropical and Public Health Institute (Swiss TPH)** is a world-leading institute in global health with a particular focus on low- and middle-income countries. Swiss TPH is an associated institute of the University of Basel, the oldest university in Switzerland and internationally known for its outstanding achievements in research and teaching, particularly in life sciences.

### Position Summary

Ifakara Health Institute in collaboration with the Swiss Tropical and Public Health (Swiss TPH) institute, would like to invite interested and qualified candidates from Tanzania holding Master's in Epidemiology, Mathematics, Mathematical Modelling, Statistics, or any other relevant quantitative disciplines to apply for the **two (2) fully-funded three-year Doctoral training** in Malaria Modelling.

The candidates will develop their PhD research idea around the use of modelling techniques to support sub-national tailoring of anti-malarial interventions or models to optimize vector control tools. Qualified candidates will pursue their PhD studies at the Swiss TPH, starting in the Fall of 2022 with 50% of the time spent in Tanzania.

### Duties and Responsibilities

- Pursue PhD studies in Epidemiology.
- Extending VCOM as part of your PhD studies.
- Training and use of OpenMalaria simulation platform.
- Enhance your understanding of mosquito biology and related fields.
- Enhance programming skills by working on specific projects.
- Enhance mathematical modelling, data management and analysis skills.
- Gain experience on how to participate in a team of research scientists.
- Gain training on how to write research grants.
- Participate in writing reports, scientific manuscripts, and other outputs to disseminate results in technical working groups, local and international conferences, and peer-reviewed journals.
- Seek support from senior scientists to apply for grants.
- Provide support to undertake different reviews related to infectious disease modelling projects.

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#### Dar es Salaam Office

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P.o. Box 78,373 Dar es Salaam  
Phone: +255222774756

#### Bagamoyo Branch

Off Chuguni Road  
P.o. Box 74 Bagamoyo  
Phone: +255232440065

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- Assist with any other duties as directed by the program coordinator.

### Qualification and Experience

- Holder of Master of Science in Epidemiology, Mathematics, Mathematical Modelling, Statistics, or any other related discipline from a recognized university.

### Skills and Competencies

- Strong background in Mathematics, Mathematical Modelling, Statistics, or any other related fields.
- Proficiency with statistical software R is a must.
- Experienced with data analysis packages, e.g., STATA, R, MATLAB.
- Strong data management and data analysis skills.
- Ability to communicate effectively in spoken and written English, with good presentation skills.
- Ability to work in an interdisciplinary team and as part of a team on large research projects.
- Having some knowledge of mosquito biology and infectious diseases is a plus.
- Mathematical modelling in infectious diseases experience is a plus.
- Experience with publishing in international peer-reviewed journals is a plus.
- Adherence to both IHI and Swiss TPH core values is mandatory.

### Remuneration

Successful candidates for these PhD opportunities will benefit from this program through the following: scholarship will cover full tuition fees, standard PhD monthly stipend when at Swiss TPH, research funds through IHI and other related research costs.

### Equal Opportunity

Ifakara and the Swiss TPH are equal opportunity employers. They prohibit intentional biases or discrimination and harassment of any kind at the work place and during recruitment. All employment decisions are based solely on job requirements and individual qualifications, and our recruitment process is governed by the labour laws of Tanzania.

### Mode of Application

All candidates who meet the above requirements should send their application letters together with a personal/motivational statement, their detailed curriculum vitae (CVs) showing contact addresses including email, telephone/cell phone numbers and copies of academic and professional certificates and transcripts to the email address below.

The **deadline** for this application is **11:59hrs (EAT) on Tuesday, July 5<sup>th</sup> 2022**. All e-mail application subject lines should indicate by specifying the position applied for: **APPLICATION FOR PhD POSITION – MALARIA MODELLING. Only shortlisted applicants will be contacted to go through technical and non-technical interviews.**

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More information about the vacancy can be obtained from: **Dr. Samson Kiware**, [skware@ihi.or.tz](mailto:skware@ihi.or.tz) or **Dr. Emilie Pothin** [emilie.pothin@swisstph.ch](mailto:emilie.pothin@swisstph.ch)

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