

NATIONAL INSTITUTE FOR MEDICAL RESEARCH



CALL FOR MASTER'S, PhD CANDIDATES AND POST DOCTORAL FELLOWS (RE-ADVERTISED)

1. BACKGROUND

The National Institute for Medical Research (NIMR) is a Parastatal Organization under the Ministry of Health, Community Development, Gender, Elderly and Children. The Institute is mandated to carry out, control, coordinate, register, monitor, evaluate and promote health research in Tanzania. The establishment of this Institute was in recognition by the Government of the need to generate scientific data and information required in the development of better methods and techniques for improving disease management, prevention and control in Tanzania.

The Institute in collaboration with The National Malaria Control Programme (NMCP) and USA partners from Brown University (Boston, MA), US Centers for Disease Control and Prevention (Atlanta, GA) and the University of North Carolina (NC) is looking for qualified, competent and self-motivated Tanzanian Master's and PhD candidates, and Post-Doctoral fellows to participate in the project entitled "**Molecular surveillance of malaria parasite populations and antimalarial drug resistance to support malaria control and elimination in Tanzania**". The project will be based at NIMR Headquarters and aims at undertaking molecular surveillance to support NMCP in the ongoing malaria elimination efforts by focusing on the following:

- Conducting population studies of malaria parasites to establish genomic based metrics for assessing and monitoring the trend of malaria transmission.
- Undertaking studies to generate profiles of drugs resistance markers in Tanzania.
- Analyzing the current status and monitoring the trend of hrp2/3 gene deletion and its effect on performance of malaria rapid diagnostic tests.

2. POSTS:

i. Master of Science in Genomics, Bioinformatics and Modelling – 3 Posts

Eligibility Criteria

- Undergraduate degree or equivalent, relevant to the area of study i.e. Biology, Molecular Biology, Biochemistry or Mathematics.
- Pass in first degree with a minimum of upper second class.
- Willingness to commit 100% (full) time and effort to his /her MSc training.
- Personal motivation of the candidate as demonstrated by his/her personal statements and responses during interview.

ii. PhD in Genomics and Bioinformatics - 2 Posts

Eligibility Criteria

- Master's Degree or equivalent, relevant to the area of study i.e. Biology, Molecular Biology, Biochemistry, Genomics, Bioinformatics or Mathematics.
- Pass in the first degree with a minimum of upper second class.
- Previous experience and publications related to the research theme.
- Willingness to commit 100% (full) time and effort to his /her PhD training.
- Personal motivation of the candidate as demonstrated by his/her personal statements and responses during interview.

iii. Post-Doctoral Fellows in Bioinformatics– 2 Posts

Eligibility Criteria

- A holder of PhD, DrPH, MD, or equivalent doctoral degree with experience in genomic analysis, molecular epidemiology, or related fields.
- Pass in the first degree with a minimum of upper second class.
- Willingness to commit 100% (full) time and effort to the fellowship.
- Personal motivation of the candidate as demonstrated by his/her personal statements and responses during interview.
- Strong analytical skills and outstanding communication skills.

Qualification and Experience

- Should have experience with next-generation sequencing techniques and genomic analysis.
- Strong familiarity with R Unix, and Python programming languages.
- Proficiency with the analysis of sequencing data.
- Should be familiar with next-generation sequencing library preparation and molecular biology techniques (nucleic acid extraction, PCR).
- Have a track record of relevant publications in peer reviewed journals.
- Outstanding communication skills.

3. MODE OF APPLICATION

Application letters should be accompanied by a one (1) page motivation letter, typed Curriculum vitae, certified copies of academic qualifications and other relevant certificates together with the names & addresses of at least three reputable referees, phone numbers and e-mail address. **The closing date is 22nd September, 2020.** Only Shortlisted applicants will be contacted.

Kindly note that, those who submitted their applications on our previous advertisement should not submit again.

Email submissions are encouraged. Use the following email address: dg_office@nimr.or.tz

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