

## MSc Studentship Advertisement

**Project title: “Molecular Surveillance and Comprehensive Assessment of the Biology, Ecology and Public Health Importance of *Anopheles stephensi* and Native Malaria Vectors in Ethiopia”**

The Armauer Hansen Research Institute (AHRI) was founded in 1970 through the initiative of the Norwegian and Swedish Save the Children organizations seconded by the Ministry of Health of Ethiopia. The Institute got its name from the Norwegian physician, Gerhard Henrik Armauer Hansen, who first described the leprosy bacillus (*Mycobacterium leprae*). AHRI reorganized by the decree of the Council of Minister's Regulation No. 530/2023 as biomedical research, clinical trial, strengthening local pharmaceutical products and research capacity building under the Federal Ministry of Health.

The Malaria and Neglected Tropical Diseases (MNTD) Research Division of AHRI would like to recruit 4 MSc students. The MSc project will be supported by AnoSTEP-Afrika and Horn of Africa Malaria Molecular Surveillance (HAMMS) projects which are funded by the Wellcome Trust and Gates Foundation, respectively.

The students will be part of a vibrant group of researchers and interact with scientists in Ethiopia, Afrika and the UK. The AnoSTEP and HAMMS studies will focus on longitudinal entomological surveys (both adult and larva) to assess the bionomics, behaviour, distribution, insecticide resistance and relative contribution of *An. stephensi* and other native malaria vectors in different eco-epidemiological settings of Ethiopia.

**More specifically, the student will mainly work on, but not limited to:**

- *Anopheles* species composition and larval habitat characterization across different study areas
- Genomic surveillance of *Anopheles* mosquitoes and their role in malaria transmission
- Mosquito larval competition studies in the laboratory and semi-field settings
- Insecticide (Larval and adult) susceptibility to public health used insecticides in *Anopheles stephensi* and other native malaria vectors at field and semi-field conditions
- Molecular xeno-surveillance of diseases



- Evaluating the efficacy of antiparasitic drugs (e.g. ELQs) against hrp2/3 deleted and pfk13 mutant *Plasmodium falciparum* parasites in laboratory and semi field conditions.
- Data collection (including qualitative data) and real time data entry to the REDCap tool
- Prepare periodic and timely progress report and related activities to the project PI & coordinator.
- Conducting laboratory work and summarise the results
- Conducting mosquito rearing, feeding and colonization
- Other similar objectives up on discussions with the project PI and coordinators

**Aim of the project:** Molecular Surveillance and Comprehensive Assessment of the Biology, Ecology and Public Health Importance of *Anopheles stephensi* and Native Malaria Vectors in Ethiopia.

Therefore, we are looking for motivated and flexible candidates who are willing to work with the AnoSTEP-Afrika and HAMMS project teams.

The research project will be conducted at sites in:

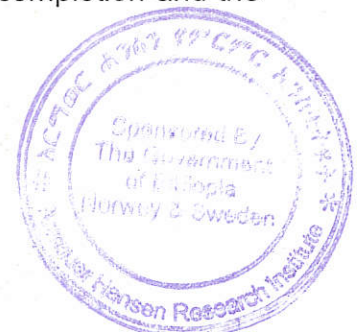
- Afar region
- Somali Region
- Oromia region
- South Ethiopia Region
- Amhara region
- Tigray region
- Benishangul Gumuz region
- Gambella Region
- South West Ethiopia region

The applicants will be working with the project team either based at these sites or by periodically moving to the specified sites.

#### **Duration**

The studentship will be for one year with flexibility on the project completion and the student will be active starting from the date of acceptance.

**Required Number of Studentship: 4 (four)**



### Value of studentship

The value of studentship covers all the research costs (field and laboratory costs)

### Eligibility criteria

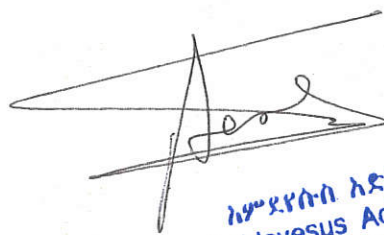
Applicants should hold a first degree in Entomology, Biotechnology, Biology, Medical laboratory Science and related fields, must be an Ethiopian national, currently registered for MSc study in Entomology, Biotechnology, Biology, Medical Laboratory Science or related fields in one of the universities in Ethiopia and completed the course work of their MSc program.

### How to apply

Application can be done through submission of relevant and required documents to AHRI, Research Training Directorate ([research.training@ahri.gov.et](mailto:research.training@ahri.gov.et)) and <https://ee.kobotoolbox.org/single/7gSNGJ41> link. During application the following documents are required:

- Copies of BSc degree academic record
- Motivation letter
- CV not more than two pages
- Copy of transcript of MSc courses
- E-mail address and phone number of two referees
- Publications should be listed in your CV, if any.

**Application deadline: - August 10/2025**



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Research Training Directorate Director

