

## Geospatial Research Officer at icipe – African Insect Science for Food and Health

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### Job Description

(adsbygoogle = window.adsbygoogle || []).push({}); Headquartered in Nairobi, Kenya, icipe was established in , to address this very paradox of insects and accompanying challenges. The Centre's mission is to use insect science for sustainable development, to ensure food security and improve the overall health of communities in Africa by addressing the interlinked problems of poverty, poor health, low agricultural productivity and environmental degradation. Since its founding, icipe has remained committed to developing and disseminating environmentally safe, affordable, acceptable and accessible tools and strategies to control insect pests and disease vectors. icipe's mandate further extends to the sustainable conservation and utilisation of Africa's rich biodiversity. icipe is the only international institution in Africa working primarily on arthropods. Therefore capacity building of individual researchers and institutions in Africa is an integral part of all the Centre's research and development activities. icipe also aims to empower women, harness the youth and build capacity to use, transfer and teach the Centre's technologies. How we work

### Overall Purpose of the Job

To provide GIS and earth observation support to the Malaria Vector Atlas project through developing high-quality GIS products of mosquito vectors and associated diseases that will be published to the vector Atlas data hub.

### Specific Duties

Develop high-quality study area and baseline GIS map products using various GIS software (e.g., QGIS, ArcMap and R) and online open-source platforms like Google Earth Engine.

Develop novel spatial models and maps that promote the understanding of the variables that drive malaria transmission.

Standardize and optimize maps before publishing them on the Vector Atlas platform to ensure the quality and reliability of model outputs.

Perform any other task assigned by the supervisor.

## **Requirements**

### **Qualifications**

BSc/BA in GIS, Remote Sensing, Geography, Environmental Sciences and/ or any related field from a recognized University.

Minimum of one-year proven work experience in – more or less- similar position.

Having previously worked with an international/ regional research organization is an added advantage.

Proven knowledge and skills in the usage of GIS and remote sensing software and open-source platforms.

Experience in the use of open data kit (ODK) and/ or other geospatial data collection apps.

Ability to handle and process a large number of imageries from different satellite systems.

Knowledge and skills in performing machine learning modelling and statistical algorithms using open-source programming environments like R and Google Earth Engine.

### **Other Desirable Attributes**

The employee should be able to judge the basic work-related problem and use his/ her determination to solve it with minimum supervision.

Providing technical backstopping for scientific publications and communicating research findings through conferences, meetings and workshops.

Work closely with partners for research project implementation and provide all needed geospatial activities to partners.

### **Reporting**

This position reports to the Head of Data Management, Modelling and Geo-Information Unit

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