Job Description

Against Malaria Foundation (AMF) is a charity that fights malaria in a highly effective, transparent way, leading to successive top rankings at ratings organisations such as GiveWell, Giving What We Can and The Life You Can Save. This has resulted in annual donations of US$30 – 50 million and a large pipeline of long-lasting insecticide-treated bednet distributions.

We are a team of seven highly motivated individuals with different skills and experience. Each person has an important role to play. All team members work remotely with constant dialogue between them. While the team is small, the impact is big - our net distributions involve multiple millions of nets, with our largest to date being 12 million nets covering over 20 million people in Uganda.

As a key part of AMF's work we request and receive large data sets from in-country partners who help deliver our programes on the ground. This data covers matters such as net need, bednet use, malaria prevalence and the capacity and cost of these partners. AMF conducts extensive checks before and after distributing nets, and as this data grows we want to ensure we obtain maximum value from it.

AMF is therefore recruiting a Data Analyst who will have a strong interest in analysing and using data to inform immediate action and our longer term policy decisions. We are looking for someone with strong technical skills who is able to work collaboratively in a small team. The ideal candidate will have empathy and commitment to those communities at risk of the health and societal impacts of malaria and an interest in improving their lives.

The focus of the role will be:

A. Analysis of the data received by AMF and presentation of the results within AMF. The primary purpose of collecting this data is to maximise the effectiveness of our work reducing malaria. Objective analysis and clear presentation of this data are central to making sure management decisions are well informed.

B. Analysis of proposals, including budgets, from potential partners to carry out data collection work for AMF. These proposals need to meet specific requirements from AMF for work to be done in the field such as establishing net need in communities, monitoring of net distributions and collecting data on net use.

Specific examples follow:

1. Registration data

The net need in each net campaign is determined by house-to-house visits, known as registration. The Data Analyst will examine data as it is received, and analyse past data to help us as a team answer such questions as: i) how can we ensure registration data is accurate? ii) which metrics are key? iii) how can we quickly perform checks and quickly identify actions to be taken (e.g. re-registration in certain villages, nets moved from one district to another) iv) what can we learn from our verification processes (known as the 105% process and Data Quality Assurance)? v) how can we improve these verification processes?

2. Post distribution monitoring (PDM)

AMF performs periodic monitoring of nets after distribution. The Data Analyst will examine data received historically from PDMs to help answer questions such as: i) how many nets are in use (hang up/coverage rates)? ii) what is the condition of these nets? iii) what is the optimal sample size and frequency of PDMs? iv) is there a link between hang up rate/coverage and malaria rates? v) how do these results compare with prior periods and other countries and what actions are suggested?

This analysis will inform decisions on the timing of future distributions, the type of nets AMF should purchase, and educational or behaviour change activities needed. The Data Analyst will help design management information screens to ensure AMF managers can access results quickly and make decisions driven by the data.

3. Partner analysis

Analysis of detailed work plans and budgets received from partners who conduct work for AMF and tracing partner spending. Participating in the evaluation of partners, such as examining how cost effective their work is compared to other existing or potential AMF partners.

4. Population estimates

Work on improving the methodology to estimate more accurately population figures from data available to us, e.g. from country census results and previous registration data.

5. Malaria case rate data

Work to help answer questions such as: i) how can we assess and improve the quality of data we can obtain? ii) what can we understand from the data we already receive? iii) what links can we make to any policy changes e.g. in net hang up or choice of net to tackle potential insecticide resistance?

Relevant skills and experience
Must have very good analytical skills and a degree or higher in a Maths, Statistics, Computer Science or related (STEM) subject.
Must have very good Excel skills. Familiarity with R, Python, SPSS, MATLAB, Visual Basic or equivalent is desirable.
Knowledge of SQL, database normalisation and API consumption is desirable.
Must have fluent English. French is helpful but not necessary.
Experience with large data sets, data visualisation and the ability to present results clearly and concisely is highly desirable.
Must be a self-starter with excellent organisational skills and the ability to work independently and manage her/his time effectively.

Job details
Salary range: £30-40k depending on experience, plus pension.
Location: remote working (all the AMF team work remotely) within UK/Europe/Africa time zone.
Management reporting: to the AMF Operations Manager
Travel: occasional trips to Africa may occur, but is not central to the role.

Applicants should write to [DataAnalyst@againstmalaria.com] with their CV and a short cover letter explaining why they are interested in and suitable for the position. The deadline for applications is September 30th. Interviews will take place in October.