Against Malaria Foundation (AMF) – Head of Analytics
Job Description

AMF profile

Against Malaria Foundation (AMF) was founded in 2004 and is a charity that fights malaria in a highly effective, accountable and transparent way.

We do this by purchasing and distributing multiple millions of long-lasting insecticide-treated nets (LLINs) at a time in nationwide universal coverage campaigns. This is the most cost effective way of preventing malaria. AMF receives donations from the public and in the last financial year received US$107m. AMF is particularly data-focused and monitors and reports on net use and drives and supports innovation to improve the effectiveness of malaria programmes.

AMF is the world's third largest funder of nets.

AMF has been rated a top charity for all of the last 12 years by independent charity evaluators GiveWell and The Life You Can Save who focus on cost-effectiveness and impact.

We are a team of nine highly motivated individuals with different skills and experience. Each person has an important role to play. All team members work remotely with constant communication between them. While the team is small, the impact is big - our net distributions protect millions of people. Our largest programme is in the Democratic Republic of Congo (DRC), where we are funding 52 million nets to protect 95 million people for distribution during 2021 to 2023. We have ongoing multi-million net programmes in other countries including Uganda, Nigeria, Guinea and Togo.

Role description

AMF places significant weight on using data to drive decisions. We continue to develop our capabilities to generate, gather and analyse information to support our objective of driving down malaria. The Head of Analytics is central to this approach, and is uniquely positioned to quickly transform findings from monitoring and evaluation into action. S/he will be empowered to propose changes to AMF's operations based both on data, particularly from field activities but also from academic studies.

The Head of Analytics will join the operations team and be involved in all aspects of AMF's operations. S/he will work closely with the Operations Director, and think creatively about how to cost-effectively reduce malaria, with both general responsibilities and specific projects.

> *General responsibilities:* manage analysis across a range of topics by applying a rigorous and analytical approach, presenting information clearly and designing new systems where necessary. All analysis will be driven by AMF's goal to reduce malaria.

> Specific projects: lead a number of projects that reflect priority areas at AMF, working alongside the Operations Director. These areas include malaria case rate and prevalence data, net performance, insecticide resistance and use of GPS data during data collection.

> Other responsibilities will be added over time as the individual and role develops.

<u>Further information</u>

General responsibilities

The Head of Analytics will work closely with all members of the AMF team, including the CEO and Technology team, to supply insights that support decision-making. To do this effectively, s/he will be conscious of qualitative information such as partner organisational constraints, human resources, political factors etc, and integrate these into analyses.

More specifically, s/he will:
- Synthesise information from multiple sources, and weigh this information to propose a suggested outcome. In particular, s/he will provide analysis that will be used to determine the selection of specific mosquito nets for a given area
- Provide specific analysis driven by AMF's transparency to donors and organisations analysing the effectiveness of its programmes, including engaging with donor materials such as cost effectiveness analysis models
- Provide methodological support for AMF's monitoring and evaluation activities, considering concepts such as bias, sample size, confidence intervals etc
- Manage data from campaign registration and AMF's monitoring activities, alongside the Technology team, and perform analyses (including designing automated analyses) to inform follow-up actions
- Interface with the Operations and Technology teams to ensure that AMF's internal systems run efficiently and sustainably and present information in a meaningful way
- Review diverse information about malaria prevention and summarise this to share with the team, e.g. academic articles, regulatory documents, WHO reports
- Review financial information to support assessments of funding allocations to countries
- Manage and develop partnerships with external organisations that could represent opportunities for research collaboration
- Lead on projects where necessary, including management of external partners and AMF team members
- Introduce new analysis mechanisms and technologies where desirable

Specific projects

The Head of Analytics will work closely with the Operations Director to lead a number of priority projects in areas with significant potential to reduce malaria. These projects may focus on analysing existing information or on establishing/growing systems to collect data.

It is expected that these projects will change over time. At present, AMF is focused on malaria case rate data, net performance data and insecticide resistance data. We have programmes in each of these areas and they will be developed significantly in the coming months and years.

1. Malaria case rate and prevalence data
    These data allow us to monitor impact and suggest or introduce additional actions that enhance malaria control.
    - Analyse the impact of malaria incidence across AMF distributions by analysing large datasets, including using information/assumptions to remove unreliable data
    - Incorporate relevant other factors such as distribution coverage and post-distribution monitoring results

- Manage and analyse malaria prevalence data collected by AMF during monitoring activities
- Assess the impact of net distributions occurring every 30 months

2. Net performance data

These data allow the performance of different types of nets, with different active ingredients to be monitored over the first three years of their life.
- Continue to develop a net testing programme that includes sampling nets from the field and sending them to labs for analysis
- Analyse the data to understand if nets are performing as expected and, if not, assess the likely reasons for this
- Use data and conclusions in discussions with suppliers and other partners to influence decision making and help drive improvements

3. Insecticide resistance data

These data are crucial in driving net type decisions for specific countries or regions.
- Assess gaps in the current system of insecticide resistance data collection in the countries that AMF supports
- Develop a plan to strengthen these data collection programmes, making use of in-country capacity
- Manage insecticide resistance data collection, both from the field and lab tests
- Feed information and conclusions into decision making during net selection

4. Use of GPS during data collection

Data collection using electronic devices is now standard in AMF's programmes, such that GPS data can be used to improve data quality to ensure nets are distributed accurately where they are needed
- Understand registration data, collection methods, and existing infrastructure/ platforms
- Explore and share methods of using GPS data
- Work alongside AMF and in-country partners to build final solutions into standard platforms

Other areas of interest include: measuring and reducing the environmental impact of LLINs and developing our capabilities with electronic data collection.

Characteristics of the successful candidate

We are looking for someone who has strong analytical skills, strong interpersonal and intellectual skills, who works collaboratively in a team and relishes responsibility and the opportunity to learn and develop their abilities. The ideal candidate will be motivated to help improve the lives of those affected by the wider impacts of malaria.

Required
- Strong, demonstrated analytical ability, including strong Excel skills covering complex formulae
- Experience working with large datasets using e.g. Python, R, Stata. Note that AMF operates using its own custom-built web-based interfaces and does not currently use tools such as Alteryx, Tableau, Power BI.
- Excellent interpersonal skills to build and maintain strong working relationships

- A self-starter who is highly organised with the ability to work independently and manage working time effectively
- An interest in driving down malaria rates through procedure changes and the use of technology
- Fluent English

Desirable (but not required)
- Fluent French

Of interest (but not required)
- Malaria knowledge or background in malaria prevention or other global health campaigns
- Knowledge of monitoring and evaluation, including statistical methods, sampling design etc.
- SQL experience

Other role details

Reporting to: Operations Director

Location: Remote working (all the AMF team work remotely) within Africa/UK/Europe time zones. The cost of any co-working office space will be covered by AMF. Part of the first three months may be spent in the UK working with the Operations team.

Initial salary: £50,000 to £65,000, depending on experience
Company contributed pension scheme
25 holiday days per year + bank holidays

Equal opportunities

AMF is an equal opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees.

Applying

Applicants should send a) a one-page cover letter explaining why they are interested in and suitable for the position, and b) their CV to headofanalytics2022@againstmalaria.com.

The deadline for applications is 28 Feb 2022.

Early applications are encouraged. Due to the nature of this role we will be reviewing applications on an ongoing basis and the role may be filled and closed before the closing date for applications.