



# AIMS

African Institute for  
Mathematical Sciences  
RESEARCH & INNOVATION

## Job Description

**Job Title:** AIMS – ONS Postdoctoral Fellow in Climate and Health

**Project Name:** UK-ONS/AIMS Project on Standards for Official Statistics on Climate-Health Interactions

**AIMS Centre:** AIMS Research and Innovation Centre, Kigali – Rwanda

**Report to:** AIMS PI for UK-ONS/AIMS Project

**Duration:** 2 Years (Fixed Contract)

### About AIMS:

The African Institute for Mathematical Sciences (AIMS) is a pan-African network of centers of excellence for postgraduate training in mathematical sciences, research, and public engagement in STEM. Its mission is to enable Africa's brightest students to flourish as independent thinkers, problem solvers, and innovators capable of propelling Africa's future scientific, educational, and economic self-sufficiency. The first AIMS centre opened in Cape Town, South Africa, in 2003; since 2011, AIMS has opened additional centres in Senegal, Ghana, Cameroon, and Rwanda.

If you bring a collaborative spirit with a passion to effect change, consider this opportunity as a Postdoctoral Fellow.

### About the project:

The project focuses on developing a comprehensive statistical analysis framework and unified standards for reporting climate change impacts on health in Rwanda. The project emphasizes multidisciplinary collaboration, active knowledge sharing, and the development of contextually relevant and scientifically rigorous indicators. Key health topics under investigation include injury and mortality from extreme weather events, water-borne diseases, zoonoses, air pollution and respiratory illness, and non-communicable diseases.

### Position Overview:

We seek a highly motivated and skilled young scientist to join the project team as a Postdoctoral Fellow. You will play a pivotal role in supporting the project, contributing your expertise in statistics, and ideally possessing domain knowledge in climate change and health. This is a two-year position with a unique opportunity to impact the measurement and reporting of climate change impacts on health in Rwanda and beyond.

### Key Responsibilities

- Collaborate with multidisciplinary teams and expert groups to come up with metrics for analyzing the intersections between climate change and health, with a specific focus on injury and mortality from extreme weather events, water-borne diseases, zoonoses, air pollution and respiratory illness, and non-communicable diseases.
- Contribute statistical expertise to developing indicators that will be incorporated into a comprehensive statistical analysis framework for assessing climate-related health impacts.
- Generate detailed metadata for selected indicators, including methodologies, reproducible code, and data sources, ensuring transparency and replicability.

- Maintain a comprehensive log of the research process, documenting steps taken, challenges faced, time allocation, and other relevant information to facilitate project transparency and knowledge sharing.
- May co-supervise masters and Ph.D. students at AIMS, depending on experience.
- Publicly disseminate research results through high-quality peer-reviewed publications.

### **Qualifications**

- Received a doctorate from an internationally recognized program not more than five years ago.
- Research expertise appropriate to the appointment domain. This could be statistics or related fields.
- Strong statistical analysis and modeling background, preferably applied to climate change, health, or both.
- Proficiency in data analysis software, statistical programming languages (e.g., R, Python), and data visualization tools.
- Excellent written and verbal communication skills, with the ability to convey complex ideas effectively to technical and non-technical audiences.
- Demonstrated ability to work collaboratively in multidisciplinary teams, a commitment to knowledge sharing, and active participation in project discussions.
- At least one paper published in an international, peer-reviewed journal.

### **Application Process:**

To apply, please submit your CV, a cover letter detailing your relevant experience and interest in the position, and contact information for at least two academic references to [research@nexteinstein.org](mailto:research@nexteinstein.org). Applications will be accepted until September 25, 2023.

AIMS is an equal opportunity employer. Women are strongly encouraged to apply to this role.