UNIVERSITY OF NAIROBI
EXTERNAL JOB VACANCIES (PROJECT POSITION)

Applications are invited for the following position:

DATA SCIENCE RESEARCH ASSISTANT, CENTER FOR EPIDEMIOLOGICAL MODELLING AND ANALYSIS (CEMA-NTD PROJECT), INSTITUTE OF TROPICAL AND INFECTIOUS DISEASES (UNITID) -AD/11/130/2022, 3 POSTS

The Position Description

CEMA at the University of Nairobi has exciting opportunities for Research Assistants in Data Science to provide statistical and mathematical analysis and programming support for funded projects on infectious disease analytics and modelling. The Research Assistants will apply quantitative, computer science, epidemiological, Mathematical, and/or statistical skills to manipulate, analyze and interpret large and complex health and health-related datasets.

Employees in this position will work on multiple tasks simultaneously requiring excellent time management skills and are expected to actively expand their knowledge and understanding of applied epidemiological modelling and programming to be effective in the position. You will receive support to grow and develop your career, it is not just a job. We want to see you succeed in your goals.

The position will contribute to the work of the Neglected Tropical Diseases Modelling Consortium (NTDMC) funded by the Bill and Melinda Gates Foundation led through the University of Oxford in partnership with CEMA and other partner institutions. NTDMC uses infectious disease modelling to guide the global and local policies and activities aimed at the control and elimination of neglected tropical diseases.

Job Title: Data Science Research Assistant

Duty Station: Center for Epidemiological Modelling and Analysis, University of Nairobi Institute of Tropical and Infectious Diseases, Nairobi, Kenya

Reporting to: Project Principal Investigator

Responsibilities

- Contribute to the design of studies, implementation and reporting of epidemiological data
- Extract, organize, store and catalogue large health datasets from multiple sources
- Conduct data wrangling processes on large and complex health and health-related datasets
- Implement statistical or other mathematical methodologies as required for specific disease models and analysis
- Support graduate and research fellows at CEMA and collaborating institutions in data analysis and modelling
- Use reproducible research methods to document workflows and analysis employed in all projects
- Provide data support to healthcare workers and public health officials implementing disease control and elimination programs
- Developing scientific abstracts, manuscripts and or presentations to conferences and other relevant meetings
- Mentor undergraduate students and recent graduates taking internships at CEMA

Requirements

- BSc or master's degree in Statistics, Biostatistics, Epidemiology, Mathematics, Computer Science, Economics, Veterinary or Medical degree or other relevant discipline
- Proficiency in use of a programming language (preferably R) for data analysis and/or modelling
- At least 1-year analytical experience working in a reputable academic or non-academic organization where data-led problem solving is a core part of the role
- Strong written and verbal communication skills
- Experience with healthcare data including longitudinal data
- Experience in mathematical or statistical modelling and epidemiological analysis
- Commitment and ability to work effectively independently and as part of a team
- Ability to communicate complex ideas and methods clearly and simply to a non-technical audience
- Self-motivated

Terms of Appointment

This is a position whose tenure is a one (1) year contract, renewable based on performance and by mutual consent. The salary is negotiable depending on the level of education and work experience.

<u>NOTES</u>

1. Applicants should email their application letters, certified copies of certificates and curriculum vitae (CV) giving details of their qualifications, experience and three (3) referees, as well as indicating their telephone and e-mail contacts.
2. Applications and related documents should be forwarded through applicants' Heads of Departments, where applicable, and be addressed to the Director, Human Resource, University of Nairobi.
3. Applicants should state their current designations, salaries and other benefits attached to those designations.
4. The application letter must bear the reference code indicated in the advertisement.
5. Late applications will not be considered.
   6. Applications should be emailed as one file in PDF to: recruit-dsrau@uonbi.ac.ke

CLOSING DATE: THURSDAY, NOVEMBER 24, 2022

**THE UNIVERSITY OF NAIROBI IS AN EQUAL OPPORTUNITY EMPLOYER
ONLY SHORTLISTED APPLICANTS WILL BE CONTACTED**