



UNIVERSITY OF NAIROBI

EXTERNAL JOB VACANCIES (PROJECT POSITION)

Applications are invited for the following position:

GEOGRAPHIC INFORMATION SYSTEM (GIS) SPECIALIST, GLOBAL CENTRE ON ADAPTION – UNIVERSITY OF NAIROBI (GCA- UON) PROJECT AD/10/104/22 - 1 POST

The Project

The Global Center on Adaptation (GCA) and the University of Nairobi (UoN) have established a partnership to scale up adaptation in Kenya and in the East African region. The project is titled “*Enhancing and Scaling Up Climate Adaptation for Resilient Infrastructure in Kenya and The East African Region*”. The collaboration will broker and strengthen new networks of climate change and infrastructure experts, including universities, global climate research institutions, engineering experts, and financing partners, with a focus on scaling up adaptation for resilient infrastructure. Specific interventions in Kenya will include a focus on four priority areas covering national investment pipelines, asset level investment resilience, capacity for mainstreaming climate adaptation, and disruptive technology for climate resilient infrastructure.

The **Global Center on Adaptation (GCA)** works as a solutions broker to accelerate action and support for adaptation, from the international to the local, working together with and building upon the efforts of a large variety of partners.

The **Africa Adaptation Acceleration Program (AAAP)** is an African-own and African-led initiative implemented by GCA and the African Development Bank (AfDB), with the support of the Africa Union (AU) and African leaders. The AAAP aims to mobilize US\$25 billion for climate adaptation investments in Africa by 2025 for a faster and stronger post-COVID-19 economic recovery based on climate-resilient development pathways.

The **University of Nairobi (UoN)** is represented in the project by (1) The Institute for Climate Change and Adaptation in the Department of Earth and Climate Sciences that conducts research and provides policy advice on climate change and adaptation, (2) the C4DLab which is a prototyping and innovative startup incubation lab at the Department of Computing and Informatics and (3) the Faculty of Engineering whose research areas in infrastructure development include water, transportation, energy, materials, and value addition.

GEOGRAPHIC INFORMATION SYSTEM (GIS) SPECIALIST

Title	GIS Specialist
Organisation	University of Nairobi
Location	Nairobi
Stipend	An attractive package will be offered
Hours	Full time
Contract type	Two years fixed.
Restrictions	Open to Kenya citizens only
Reporting to	Prof. Faith Karanja and Prof. Daniel Olago
Starting Date	1 st January 2023 or as soon as possible thereafter
Additional information	The GCA-UoN project will offer supervision and all operational costs directly related to the research work. The GIS Specialist will be based in the Department of Geospatial and Space Technology, University of Nairobi and will also have affiliation with the Institute for Climate Change and Adaptation, University of Nairobi.

The GIS Specialist will be engaged in the following research activities:

- Support the development of a spatial database on: Climate hazards (highest resolution probabilistic data); Infrastructure networks and assets - energy, water, roads, rail, ports, airports, and ICT assets; Critical physical assets that rely on infrastructure systems, such as hospitals, clinics, and schools; Natural assets that can play a role in protecting or substituting infrastructure assets and services; and Related economic and social services that rely on these networks (e.g. trade flows and traffic flows)
- Together with Post-Doctoral Fellow – GIS and the Post-Doctoral Fellow – Climate Change & Adaptation, map climate hotspots where infrastructure systems and assets are exposed to climate related hazards
- Perform spatial analysis in collaboration with other project team members to support quantification of climate impacts on physical assets and the cost of disruptions on services.
- Provide technical support in the Master class on PPPs training.
- Any other duties as may be prescribed by the Supervisors.

Requirements:

Essential

- Hold a BSc degree in Geospatial Engineering or equivalent
- Hold an MSc degree in GIS or equivalent
- Competent in using Geographic Information Systems (GIS) tools
- Strong spatial database development, statistical and modelling skills
- Knowledge of climate change and adaptation and the policy contexts
- Desire to learn and explore new intellectual territory
- Motivation and ability to work collaboratively in a large trans disciplinary project including multiple disciplines, cultures, languages and environments
- Willingness to undertake field and stakeholder-based research
- Demonstrate strong communication skills, both oral and written
- Ability to work with minimum supervision

Desirable

- Demonstration of the working of GIS tools
- Familiarity with multidisciplinary/trans disciplinary approaches to research
- Strong in data analytics, including programming languages such as Structured Query Language (SQL), R or Python-Statistical Programming
- Good data visualization and presentation skills

NOTES

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-giss@uonbi.ac.ke

CLOSING DATE: WEDNESDAY, OCTOBER 26, 2022

THE UNIVERSITY OF NAIROBI IS AN EQUAL OPPORTUNITY EMPLOYER. FEMALE APPLICANTS ARE STRONGLY ENCOURAGED.

ONLY SHORTLISTED APPLICANTS WILL BE CONTACTED.