

# CALL FOR EXPRESSION OF INTEREST

## LONG-TERM CONSULTANCY AS A GEOSPATIAL DATA ANALYST FOR AGRICULTURE AND CLIMATE RESILIENCE IN DEVELOPMENT COOPERATION (2 YEARS, FULL- OR PART-TIME)

### Summary:

Are you ready to be part of a dynamic data analytics team, creating a meaningful impact through open-data and open-source technologies? Join us at KfW Development Bank as a Geospatial Data Analyst for Agricultural Development and Climate Change Resilience, and contribute your expertise to projects aimed at improving the living conditions of people in the Global South.

### Mission and Purpose:

At KfW Development Bank, we are committed to driving positive change by funding projects that enhance agricultural productivity, nutritional security, and climate resilience for impoverished and marginalized communities. However, making informed decisions about how to best allocate financial resources requires reliable and unbiased data.

Our mission is to provide data support for financial cooperation projects during the preparation, monitoring, and evaluation phases. To achieve this, we are implementing a data-science project called Nephele from late 2023 to the end of 2025. In close collaboration with the German Federal Ministry for Economic Cooperation and Development (BMZ), our goal is to develop various data use-cases and establish an open and community-based data-analytics infrastructure for German development cooperation. Our primary focus areas include open-data and geospatial analysis in agriculture, conservation, and conflict.

### Your Role:

As a Geospatial Data Analyst, you will be a vital part of an analytical team driving transformational change. Your main focus will be on providing insights through intricate data analysis using geoprocessing and remote sensing techniques. You will develop analytical reports and visually intuitive data visualizations for your products. Additionally, you will engage with stakeholders from both operational and policy departments in our institutions. You'll also share your findings with the public and actively contribute to the MAPME community—an initiative that collaboratively develops reproducible data-analysis routines with partners from the development sector.

### Responsibilities:

- Contribute to comprehensive business analysis, identifying data challenges and opportunities for agriculture, climate change, and food security projects.
- Transform information needs into research questions, conceptualizing methods and desired analysis outputs.
- Identify valuable open-data sets to support evidence-based decision-making and maintain an open-data catalog based on Geonode.
- Analyze complex geospatial data to extract insights on agricultural productivity, climate impact, and food security.
- Collaborate with data engineers and fellow Geospatial Analysts to develop automated data processing routines using Python and R.

- Apply quantitative techniques not only for data processing but also to uncover patterns and model statistical relationships.
- Create clear and user-friendly data products and presentations using tools such as Quarto, Jupyter Notebooks, Rmarkdown, QGIS, and Geonode.
- Disseminate findings through various channels, including social networks and workshops.
- Actively participate in team collaborations and engage with stakeholders.

### **Qualifications:**

- Hold an advanced degree (Master's or PhD) in Geoinformatics, Geography, Remote Sensing, Agricultural Studies, Environmental Studies, Statistics, Computer Science, Informatics, or related fields.
- Demonstrate a genuine interest in agriculture, rural development, climate change, and food security.
- Possess a strong passion for working with open data and open-source technologies.
- Have a solid background in open-source GIS and quantitative data analysis.
- Proficiency in geospatial analysis using R (ggplot2, tidyverse, sf, terra, sp, raster, etc.) and/or Python (geopandas, shapely, etc.).
- Familiarity with QGIS and Geonode.
- Experience with Git and Github/Gitlab or similar version control systems.
- Effective communication skills to convey complex data insights clearly.
- Strong analytical mindset with the ability to derive meaningful insights.
- Collaborative and open-minded approach to working in a diverse team using agile methods (Kanban and Scrum).
- Fluency in both spoken and written English.
- Proficiency in German is advantageous but not mandatory.

### **Why KfW?**

By joining us, you become part of a working environment dedicated to creating meaningful change. As a Geospatial Data Analyst, your contribution contributes to increase the impact of our development projects in the Global South. Your work is remote which will give you the flexibility to organize and work independently. Nevertheless agile team management methods and occasional on-site meetings and workshops, will give clear guidance, goals and feedback opportunities for your personal growth. Interacting with other professionals and several institutions in the development cooperation field will give you the opportunity to largely expand your career network. Your work and expertise will furthermore gain visibility far beyond our project as we operate within the open-source paradigm.

### **Instructions for stating your interest:**

Ready to make a difference? Share your resume and optionally a concise cover letter (maximum 300 words) showcasing your passion for our mission and how your skills align with our objectives. We will give you feedback and get back in touch with you soon.

### **Note:**

The assignment is expected to start as soon as possible, with the contract period extending until the end of 2025. KfW's main headquarters are located in Frankfurt, Germany. We encourage applications from all countries within the CET time zone (+/- 3 hours).

### **Contact Person:**

