

## **CAREER OPPORTUNITY**

### **The World Bank Poverty and Equity Global Practice**

The World Bank Poverty and Equity Global Practice plays three key –leading and supportive– roles: sectoral integrator at country level; generator of knowledge and dialogue; and operational solutions supporter. The country-level work of the Poverty and Equity global practice typically falls under one or more of the following three streams:

1. Laying the foundations for evidence-based policy by strengthening data on household welfare: this is the foundational work, mostly delivered through technical assistance and occasionally through statistical capacity-building investment operations, to support the design and implementation of household surveys, provide advice on best-practice methodologies for estimating household welfare, poverty, and shared prosperity, and build capacity and strengthen country systems for collecting data on and monitoring household welfare.
2. Defining the agenda through integrative analysis and dialogue: this stream of work has focused on using the household-level data, wherever available, to undertake integrative analyses to inform the policy dialogue and advance the poverty reduction and shared prosperity agenda and priorities at the regional, national and occasionally sub-national levels.
3. Delivering operational solutions: this stream of work focuses on collaborating with internal and external partners to translate the upstream analytics into concrete implementable measures and support the implementation of particular interventions aimed at reducing poverty. This includes supporting the preparation of Systematic Country Diagnostics and Country Partnership Frameworks, as well as the analysis of poverty and social impacts of Bank operations.

### **Spatial Analysis of Development in Tanzania**

The World Bank Group is currently preparing a spatial analysis note on the spatial dimension of development in Tanzania. This note seeks to provide a spatial diagnostic of patterns of economic development in Tanzania based on conventional micro-level household data combined with a rich set of geospatial datasets that are publicly available. This is a complementary piece to Chapter 5 in the 2019 Mainland Poverty Assessment, which identified key correlates with subnational poverty estimates based on the 2017/18 Household Budget Survey and satellite data. In particular, this note focuses on 7 thematic areas -- economic development, urbanization, human capital, agricultural productivity, industry, accessibility, and public finance -- and provides a descriptive snapshot of spatial inequalities in those areas.

The spatial analysis note will be accompanied by the Project Targeting Index online dashboard, which serves both as an online database of the set of subnational indicators collected for the note and also as an analytical tool to use those indicators to inform resource allocation through the PTI, which is a composite index of various constituent indicators that can be leveraged to match specific development objectives with geographic resource allocation. More details on the PTI can be found in this link: <https://openknowledge.worldbank.org/handle/10986/34311>.

### **Summary of Responsibilities and Duties**

The core responsibilities of the consultant include

- 1) Identifying a key set of indicators to be used for the technical note, which can also be included in the PTI tool.

- 2) Assist in writing up the note based on key findings from spatial analysis and contextual/local knowledge.
- 3) Clean and merge data on the set of indicators identified in (1).
- 4) Producing an R-shiny application or an online dashboard with an interactive map that allows users to overlay those indicators, conduct some simple diagnostics (e.g., histograms, scatterplots), and create the PTI based on indicators and weights selected by users.
- 5) Write up key findings and insights based on the PTI analysis.
- 6) Provide training for spatial analytics and online database management.

The technical note will be delivered and the PTI dashboard will be launched in January 2022.

### **Required Qualifications**

- Bachelor's or advanced degree in Economics, Applied Economics, Statistics, Computer Science, Political Science, or other related disciplines
- Programming skills in R (proficiency in Stata and/or Python a plus)
- Experience with R-shiny is a plus
- Familiarity with QGIS and/or ArcGIS is a plus
- Solid writing and editing skills, with a strong command of English and ability to convey complex ideas in a creative, clear, direct, and lively style

### **Supervision**

Work will be supervised by Takaaki Masaki (Economist, EAEPV01).

### **Duration**

The consultancy will commence in November 2021 and continue until June 2022. The mode of engagement can be part-time or full-time depending on the needs and availability of a candidate.

### **Mode of Application:**

Qualified applicants are welcome to apply and should reach out to Takaaki Masaki at [tmasaki@worldbank.org](mailto:tmasaki@worldbank.org) by **October 31, 2021**.