Terms of Reference

Appointment Type: Short Term Consultant (STC)

Specialization: Applied Microeconomics - Statistics

Practice Group/Unit: Development Data Group, Analytics and Tools unit (DECAT)

Location: Washington DC

Duration: Aug 5, 2019 – December 31, 2019 (10 Days)

Background

The Data Analytics and Tools unit in the Development Data Group is looking to hire a short-term consultant to support a global project (Data Fusion) aiming at measuring the Sustainable Development Goals in real-time.

The DECAT work program includes initiatives that enable and support evidence-based development policies and programs, by (1) improving the utility and interoperability of traditional development data and auxiliary data, and (2) the implementation of advanced data science, geospatial and machine learning methods to support high resolution measurements, insights, and analysis.

The Data Fusion project that the consultant will support involves working with both traditional survey-based data, a massive dataset of social media posts, and deep learning algorithms to build predictive models of official statistics at high frequency and at the sub national level.

Duties and Accountabilities

In the first stage of the project, the consultant will help:

* Prepare a dataset of ground truth data across countries combining micro survey databases (e.g. GMD), as well as country level HH and LFS surveys.
* Produce econometric analysis combining micro-survey and signal coming from social media data
* Prepare results in the form of figure and tables
* Validate the labeling of tweets

Selection Criteria

* Master/PhD in Economics, Statistics, or related disciplines
* Proficient in R (preferred) or Stata
* Solid skills on household survey data management
* Working knowledge of both GMD and country level HH and LFS surveys
* Working knowledge of applied micro econometric analysis and time series analysis (preferred)
* Working knowledge of Github (preferred)
* Excellent communication skills

If you are interested, please send a CV and a short cover letter to:

[sfraiberger@worldbank.org](mailto:sfraiberger@worldbank.org)