Request for Quotation - GIS mapping services

Background

GRID3 (Geo-Referenced Infrastructure and Demographic Data for Development) works with countries to generate, validate and use geospatial data on population, settlements, infrastructure, and boundaries. GRID3 combines the expertise of partners in government, United Nations, academia, and the private sector to design adaptable and relevant geospatial solutions based on capacity and development needs of each country.

Scope of Work

1- Translate mapping template from ESRI software (ArcMap/ ArcGIS Pro) into QGIS

Our current workflow makes use of automated map templates created under an ESRI environment. Some map examples are provided below. The service provider will recreate a workflow using open source software and available libraries (QGIS) so that the look and feel of the maps either remain or is improved, as per guidance from the CIESIN team; taking into consideration aspects related to file size optimization (our files are usually downloaded in low bandwidth environments); basemap layers; potential integration of ancillary information using dynamic tables. In addition to the map template, the service provider will document the workflow followed in a step-by-step guide for an entry-level user to operate.

Deliverables:
1.1 - Up to 5 map template files (A0, A1, A2, A3, A4 sizes, data and topic will be provided, as an example)
1.2 - Step-by-step guide with instructions to recreate maps.

2- Facilitate batch map production

Using TBD map templates, support the batch map production of up to 3 campaigns (TBD by the CIESIN team), which includes the production of up to 2500 maps. The service provider is expected to liaise with the CIESIN team to understand the objective of the map during the field campaign, and provide inputs and recommendations accordingly. If map templates from #1 are utilized and adjustments are necessary, the service provider will document those changes and enhance the step-by-step guide listed in 1.2.

Deliverable:
2.1 - Support the production of up to 2500 maps in batch processing mode using TBD map templates (as determined by the CIESIN team), from up to 3 field campaigns.
2.2 - Make adjustments to map templates from 1.1, if necessary.
2.3 - Enhance documentation from 1.2 if necessary.
3- Produce training materials for selected workflows

The service provider will create training materials (i.e. guides with screenshots, as well as presentations to be used during training sessions) in English for up to 3 selected data workflows, to be determined by the CIESIN team. The data workflows could be either using ERSI and/or a combination of other open source environments. The service provider will utilize GRID3 templates for presentations, and/or adjust the layout of guidelines and documentation according to GRID3’s branding.

Deliverables:
3.1 - Training materials and/or presentations for up to 3 TBD data workflows.

Minimal qualifications

- At least 5 years of experience in:
  - GIS visualization and cartography using batch mode processing for map production in both ESRI and open source environments.
  - Enhanced data processing techniques for file size optimization, dynamic table filling and labeling.
  - Python scripting for GIS data processing.

Terms


CIESIN/ Columbia University reserves the right to cancel this solicitation at any point and is under no obligation to issue a contract as a result of this solicitation. CIESIN/ Columbia University will not reimburse any expenses related to the preparation of any proposal related materials, or delivery.

How to apply

Offers must be submitted by email to grid-consultants@ciesin.columbia.edu by Wednesday July 20, 2022

The supplier is expected to submit the following documentation:

- A signed cover letter presenting the consultant’s capabilities and relevant prior experience to conduct this work (2 pages, maximum).
- A quotation for services with an estimated number of person-days per work package and a daily rate (in USD). Total costs should be provided inclusive of applicable fees, taxes, and/or other duties.
- Curriculum vitae of the consultant and/or team lead.

Examples of maps produced currently using ESRI software