Term of Reference
GIS and Spatial Analyst
For Low Carbon Development Initiative Phase-2 (LCDI2)

Background

The Foreign, Commonwealth, and Development Office of the UK Government (FCDO) in collaboration with the Development and Planning Ministry (Bappenas) and the Government of Indonesia, have developed a partnership agreement in the Low Carbon Development Initiative (LCDI) since 2017. The first phase of LCDI was implemented in 2017-2021. Currently, the program has entered LCDI Phase 2 (LCDI2) for four years. The LCDI Phase 1 focused on the preparation and implementation of the first national low-carbon development plan for Indonesia. One of the major milestones in LCDI Phase 1 is the Government of Indonesia launched a UK-funded report called "*Low Carbon Development: A Paradigm Shift Towards a Green Economy in Indonesia*" (the LCDI Report). This report has been successfully incorporated into the national Medium-Term Development (RPJMN) 2020-2024.

Oxford Policy Management Limited (OPML) has recently contracted by FCDO, with the British Embassy Jakarta (BEJ) as its client service, as the Supplier to deliver and manage program implementation of LCDI2 in collaboration with the Government of Indonesia (GoI), primarily Bappenas, along with relevant line ministries and the pilot provinces of the Programme. This program will support the implementation of the LCDI at both the national and subnational levels to help the Government meet its emissions reduction targets in Indonesia's medium-term development plan. In specific, the program covers:

- Building political support for low-carbon development within and outside of government

- Building knowledge and understanding of the LCDI approach among those who would be responsible for implementing it within GoI

- Supporting implementation of the LCDI approach, especially through provincial and national development plans

- Raising ambition to the highest levels set out in the LCDI report

To effectively implement the LCDI2, OPML as an implementing agency is planning on mobilizing a team of GIS and Spatial Analysts.

Key objectives of the role

The GIS and Spatial Analyst will support the LCDI2 management unit in providing technical input for low-carbon intervention and climate resilience for spatial analysis and modeling. The GIS and Spatial Analyst is responsible for developing and discovering patterns and trends through spatial mapping and modeling, developing mapping applications and tools, ground truthing, and managing digital databases and geographic maps in various file types, among other duties. The GIS and Spatial Analyst will report directly to the Deputy Team Leader of the LCDI2 Project.

Main Responsibility

1. Analyzing spatial data through the use of GIS software and developing spatial models for key priority sectors.
2. Developing spatial modeling in various sectors (e.g. Forestry, Agriculture, etc.) discovering patterns and trends through spatial mapping of data.
3. Integrating analysis from system dynamic models to spatial data to produce a spatial model.
4. Designing digital maps with geographic data and other data sources.
5. Producing maps showing the spatial distribution of various kinds of data sets.
6. Converting physical maps into a digital form for computer usage.
7. Produce reports on geographic data utilizing data visualizations.
8. Managing a digital database of geographic maps in various file types.
9. Liaise between the Directorate of Environment of Bappenas with other ministries and other national institutions, provincial governments, and development partners.
10. Support other activities based on the direction of the LCDI-2 Team Leader, and coordinate relevant with other consultants/experts and other coordinators.

Output

1. Spatial modeling for the priority sectors in LCDI at the national and regional level.
2. Report on spatial model trends with the integration of a system dynamic model for key priority sectors (e.g. forestry, agriculture, etc.)
3. Construct spatial models from key priority sectors at the national and regional.
4. Regularly update National and Provincial spatial data for national and regional.
5. Support the report and/or policy brief production on climate policies, governance, technology, and market from the global and national, on GIS and Spatial components.
6. Regular update on spatial data on the AKSARA web system and platform
7. Quarterly activity progress report

Required Qualifications, Skills, and Competencies

1. Minimum 5 years experience in GIS and Spatial modeling.
2. Experience in GIS software such as Arc GIS Pro, QGIS etc.

3. Proficiency with database programming languages such as SQL, R or Python.
4. Proficiency with front-end design languages such as HTML, CSS, JavaScript, and various mapping languages.
5. Experience with mapping tools such as QGIS and Carto.
6. Experience with GPS measuring tools.
7. Outstanding quantitative skill set.
8. Attention to detail and good problem-solving skills.
9. Analytical mindset and Good interpersonal skills.
10. Excellent written and verbal communication in English and Bahasa Indonesia.
11. Understand climate change, environment, economic development is required.

Education

Have a minimum education of bachelor's degrees in the field of geography, computer science, engineering, or a related field

How to apply

This role is full time and the candidate will be initially contracted for Inception phase up to February 2024 with a possibility of extension.

Please send your application by sending a cover letter addressing the required qualifications, skills, and competencies, and CV as one file in English to lcdi2.recruitment@opml.co.uk with the subject line *"Application for GIS and Spatial Analyst LCDI2 Programme"* on 15 November 2023 at the latest. Only shortlisted candidates will be contacted.

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