

Wildlife Conservation Society
WCS Cambodia Program

JOB DESCRIPTION

Position	:	Online Digital Mapping Platform Development (Consultant)
Project	:	EU “Our Tonle Sap”
Duty station	:	Work Remotely
Report to	:	Project Lead, Our Tonle Sap Project
Department	:	Tonle Sap Landscape/GIS Department

Background:

The Wildlife Conservation Society, founded in 1895, has the clear mission to save wildlife and wild places across the globe. WCS's goal is to conserve the world's largest wild places in 16 priority regions, home to more than 50% of the world's biodiversity. We currently manage about 500 conservation projects in more than 60 countries. WCS has been working in partnership with the Royal Government of Cambodia since 1999, providing technical advice and support for the conservation of key habitats and species across the country. The WCS Cambodia program is growing rapidly! We are looking for applications from qualified candidates to develop an online digital mapping platform for a new four-year \$5 million project funded by the EU. The “Our Tonle Sap” Project adopts an integrated landscape approach to strengthen resilience to environmental change in ecosystems, communities and biodiversity throughout the Tonle Sap Biodiversity Reserve. The Project has six co-applicant partners. The Project works simultaneously across multiple scales with government, communities and the private sector. It will enhance management and restoration of critical habitats to facilitate resilience to environmental change by improving government and community management of protected areas, developing and implementing community-level fire management plans, piloting community-managed vegetation rehabilitation and silviculture, and developing ecologically resilient livelihoods that protect floodplain habitat. The Project will also address the drivers of environmental change by supporting national and sub-national government to develop policy that incorporates adaptation and sustainability considerations, and working with development agencies, banks and the private sector to improve environmental and social practices.

Purpose of Position:

This will need an experienced digital developer or team to develop a publicly available map portal for the Tonle Sap, floodplain and watersheds. The portal will combine a range of publicly available geographic datasets from NGO and government partners, expand our spatial knowledge of ecosystems through a supervised learning approach using classified earth observation data into mappable data, and providing a series of tools to apply regional and global datasets for forests, including forest fires, hydrological and climate change models.

Timeframe:

Portal Development shall start immediately after an agreement comes into effective (December 2021) and expect to be completed **by March, 2022.**

Outputs and Deliverables:

1. Portal Development

- 1.1. Develop a base map structure (watersheds, districts, communes, protected areas, etc.) online
- 1.2. Spatially display accurate land cover, especially rice, grassland, shrub and flooded forest of the Tonle Sap, floodplain, and watersheds
- 1.3. Launch a publicly available portal
- 1.4. Add supplemental spatial data for forest fire¹ information
- 1.5. Add supplemental spatial data for hydrology across the Tonle Sap and its watersheds

QUALIFICATIONS AND EXPERIENCE:

- Bachelor's degree in land management and land administration, agriculture, forestry, environmental science, biodiversity conservation, cartography, climate change, computer science/software engineering or a related field
- Experience using Google Earth Engine for using a supervised learning approach to classify earth observation data and other geospatial datasets into broad mappable units
- Experience utilizing a range of models and geospatial tools such as FIRMS Data.
- Minimum five-year experience working in this field.
- Strong facilitation, presentation, and coordination skills, and a good understanding of fisheries management, wildlife conservation, rural context and rural communities are advantageous.
- Excellent interpersonal and communication skills, and ability to work independently and as part of a team
- Good in English (especially reading and writing)
- Good analytical/problem solving and critical thinking skills
- Good Computer skills (MS Words, Excel and PowerPoint and GIS)

ABILITY

- Ability to handle multiple tasks and assignments simultaneously required.
- Working on own initiative with minimum supervision and staying on tasks
- Maintain excellent communication with and encourage strong participation of local staff
- Liaise with partners, the private sector, and international and local NGOs as required

¹ FIRMS data (e.g., fires detection from Moderate Resolution Imaging Spectroradiometer (MODIS) aboard the Aqua and Terra satellites, and the Visible Infrared Imaging Radiometer Suite (VIIRS) aboard S-NPP and NOAA 20)