



Call for Consultants: **MOBILE APPLICATION DEVELOPER**

Objective

Create an ecological data collection application on Android for Gibbon and Biodiversity Research. The application should be synchronized to online database systems and be intuitive and easy to use in the field to collect ecological, behavioral and conservation data.

Background

Jahoo is a community-owned initiative providing wildlife-friendly livelihoods, motivating conservation action, and supporting social development with the unique southern yellow-cheeked crested gibbon as its flagship species.

Jahoo is located within the core conservation zone of Keo Seima Wildlife Sanctuary (KSWS), Mondulhiri, Cambodia, the last stronghold for this gibbon species protecting a critical population of approximately 1,200 gibbons. 3 groups of gibbons, living within a community protected forest, are being habituated to human presence for wildlife-based tourism and conservation research. The project is supported by World Hope International (WHI) and the Wildlife Conservation Society (WCS).

More information on Jahoo can be found here: www.gibbon.life

The Research Centre at Jahoo is being launched and work has begun to implement behavioral, ecological and conservation research studies on southern yellow-cheeked crested gibbons and other conservation priority wildlife, whilst also developing local wildlife research capacity and create research collaborations with university partners.

In total, 3 long-term datasets are being created, including:

1. Behavioral and ecological database on habituated wild gibbon groups.
2. Environmental dataset from monthly forest phenology surveys.
3. Biodiversity dataset for key birds and mammal species from camera traps and line transect surveys.

Setting up these long-term datasets will provide important data for resident and visiting researchers as well as students to answer ecological and behavioral questions about species, populations, and communities.

Up until now the research local team has been using pen and paper to collect field observations of habituated gibbons and biodiversity, resulting in the use of several datasheets, manual data entry in multiple datasets and collection and transcription errors. The Jahoo Research Centre requires improved systems for collecting and extracting gibbon and biodiversity data for further analysis. Digitizing data collection will help the team to collect accurate data and will be time-efficient; data

should be exported easily and quickly into databases following international best practices and standards.

Deliverables

1. Develop a mobile application for data collection.

The consultant will:

- Review the data collection needs based on the Research Centre objectives in consultation with the Research Coordinator.
- Together with the Research Coordinator, develop a new mobile application according to needs.
- Develop a mobile application for collection data needs, primarily gibbon ecological and behavioral data, and test with Research Coordinator and adapt if necessary.
- Investigate the feasibility of including forest productivity, camera trapping and biodiversity survey data collection into the same application.
- Ensure the application is paired and synchronized with the databases so that data is uploaded and organized ready for analysis after collection.
- Ensure that the application is intuitive so it can be used by non-English speakers of limited capacity.
- Create both Gibbon “Habituation” and “Follow” data forms with different data collection requirements. The application must combine recording determinate-min interval of behavioral data using set-up alarm and ad libitum data, as well as recording the GPS coordinates of every collected data point, enabling researchers to map and spatially analyze the behaviors they observe.
- Ensure that the application includes a map, so that researchers can view the last known location of the gibbon groups and routes and do spatial analysis.
- Investigate the possibility to have data visualization and review included in the application so that researchers can see performance metrics and graphs.
- Ensure an admin mode is put in place to allow the Research Coordinator to perform any quick analysis and changes to the data collection form.
- Ensure appropriate testing of the data collection tools and adapt if necessary.
- The camera trap data collection tool form should be in line with Wildlife Insights platform and data requirements.

Location

Remote.

Timeframe

All deliverables are to be completed by **March 2024**.

Reports to

Jahoo Research Coordinator.

How to Apply

Send a technical offer (including timeline and consultancy fees) and an up-to-date CV (including references from previous relevant contracts).

Use the subject header "Mobile Application Consultant" and send to research@gibbon.life.

Deadline for applications is **27th September 2023**.

Interested, but have questions?

Don't hesitate to contact research@gibbon.life with an initial expression of interest, queries, or request for a call to discuss more.