

**Wildlife Conservation Society (WCS)
Cambodia Program**

JOB DESCRIPTION

Name :
Position : Camera Trap Data Management Intern
Project : Biodiversity Monitoring, KSWS
Duty station : Sen Monorom, Mondulkiri; Phnom Penh
Report to : Oliver Griffin

BACKGROUND:

Cambodia's unique and globally important wildlife often exists over large areas, at low densities, adopting human-avoidance behaviors that make them increasingly elusive, meaning camera traps are an important tool for biodiversity monitoring across a range of taxa. A wealth of camera trap images and data have been collected by WCS over the last 2 decades across the country, first using film-based camera traps and subsequently using digital camera traps as the technology became available. This dataset provides important information on species distribution and relative abundance for large and small mammals, as well as birds.

With multiple projects across many protected areas collecting a large number of images, data management is an important issue. Recently, 15,000 film-based camera trap images were digitized and indexed. The next phase of this work is the indexing of an estimated 75,000 digital camera trap images. Once completed, and with the full film and digital collection collated into an appropriate, dedicated system, this rich, long-term data set can be used in an array of monitoring and ecological studies.

This project is an opportunity to centralize camera trap data collected between 2001 and today into an effective and appropriate system, allowing access for future aggregate analysis and outreach.

PURPOSE OF POSITION:

The Camera Trap Data Management Intern will compile existing camera trap data sets, and standardise them into a format compatible with the Camera Trap Federated Minimum Data Standard. Potential analysis to conduct includes occupancy.

The Intern will learn:

- Data management and data cleaning processes and tools, including OpenRefine
- Data standards including the Camera Trap Federated Minimum Data Standard and Darwin Core
- The use of APIs to programmatically access publically available datasets for data reconciliation
- Camera trap data management
- Training and presentation skills

This position is suitable for a strong graduate applicant or post-graduate applicant.

DUTIES AND RESPONSIBILITIES:

- Receive training on the Camera Trap Federated Minimum Data Standard, and on Darwin Core standards
- Use the Camera Trap Federated Minimum Data Standard to standardize camera trap data and metadata
- Use data management and data cleaning tools such as Microsoft Excel and OpenRefine
- Use Darwin Core standards to prepare data for supporting upload to the Global Biodiversity Information Facility

- Conduct analysis on camera trap data with the support of the Data Analyst and Operations Technical Advisor
- Support training of biodiversity officers in use of online platform and data entry

QUALIFICATIONS AND EXPERIENCE:

- Strong BSc or MSc graduate, preferably in a related field
- Meticulous data management skills
- Experience with large datasets
- Experience with data cleaning

As well any and all other work assignments, duties, and/or functions as WCS or its management may designate or instruct in the course of its operation, which may include assignments, duties, and/or functions that vary from the above.