

Database and Software Developer Job Announcement

Field Projects International is currently offering a short-term consultancy for an experienced **Database and Software Developer** to assist our scientific team in creating automated integrations between our research database and the open data kit (ODK) platform and then further linking these systems to laboratory data management tools. Our goal is to optimize data collection, management, and tracking from the point of obtaining a biological sample in a remote location to analyzing it for any number of scientific purposes (disease screening, animal relatedness, microbiome, etc.). Of high importance is the ability to work with these platforms in areas without reliable or strong internet connection, and for these systems to be accessible to people with limited computational training.

We constantly grapple with questions such as:

- 1) How do we most efficiently collect data such that minimal proofing and checking is required before it is entered into a more permanent database
- 2) How do we temporarily store and backup data for import to a database from a remote location with poor connectivity
- 3) How do remote field laboratories reliably interact with cloud-based data systems and tools
- 4) How do we fix database entries one at a time or in bulk, without requiring someone that codes in sql
- 5) How do we accommodate expansion in terms of the research projects and analysis tracking that our data systems can support. And related to this, how do we compartmentalize the database so that users only interact with what they need

The ideal person for this position will have time to devote to this work over the next 3 to 6 months and possess expertise in the one or more of the following areas:

- Relational database design, set-up and manipulation
- Web application development
- Strong programming in at least one scripting language: javascript, php, python, r
- Knowledge of open data kit software
- Containerization via Docker

As this is a position that will work remotely, we especially value strong skills in the following areas:

- Written and oral communication
- Time management
- Organization

Field Projects International (FPI) is a 501c(3) nonprofit corporation based in California dedicated to the study and conservation of tropical ecosystems through hands-on training in field research

and innovation in conservation technology. FPI's primary research efforts are concentrated in the Neotropics, with scientific and conservation training workshops that take place at multiple international field sites including North America, Central America, South America, and Southeast Asia. FPI is the coordinator of the In Situ Laboratory initiative that aims to empower local scientists and community leaders in habitat countries with modern wildlife population monitoring and pathogen surveillance tools.

Qualified applicants should send a resume/CV (required), cover letter (optional), to [info\(at\)fieldprojects.org](mailto:info@fieldprojects.org). Address your email to "FPI Recruitment Committee", and please include the position title in the subject of the email.

All applications are due by October 11

Field Projects International is an equal opportunity employer. Applicants will not be discriminated against because of race, color, creed, sex, sexual orientation, gender identity or expression, age, religion, national origin, citizenship status, disability, ancestry, marital status, veteran status, medical condition or any protected category prohibited by local, state or federal laws