**Internship Proposal**

**Based at the Institut Pasteur du Cambodge (IPC)**

Version as of September 01st, 2021

**Student’s profile and mentoring:**

Duration of the Internship: 4 months

Mentors at IPC: Xavier Faure (IT lead, xfaure@pasteur-kh.org)

Mentor at PNC: *To be determined*

**About Institut Pasteur du Cambodge** (www.pasteur-kh.org)

Established in 1953, Institut Pasteur du Cambodge (IPC) is a non-for-profit research institution of public utility engaged by convention with the Royal Government of Cambodia operating under the auspice of the Ministry of Health and the Institut Pasteur (Paris).

The three main missions of IPC are:

1/ to conduct high quality, advanced research in life sciences and health;

2/ to fully support public health activities in Cambodia and Southeast Asia as a whole; and,

3/ to provide training and education.

IPC is a member of the Institut Pasteur International Network (IPIN), a highly coordinated network with 32 member institutes spread across the globe facilitating collaboration and scientific exchange.

**Context of the proposed internship**

IPC would like to improve the software used for registration & follow up of patients attending the Free HIV Testing Clinic. The student will be woking with the IT team.

Task : Migrate the HIV database to REDCap

In order to upgrade the software (web based) used for the Free HIV Testing Clinic, IPC has decided to migrate it to a more appropriate system REDCap (<https://www.project-redcap.org> ). Indeed, data from REDCap can be exported in many formats and used to generate reports easily readable by other parties.

The intern will need to understand the current workflow for registering patients and improve it as requested by the doctors. The intern needs to export the data from the old database to a REDCap database so we can keep the history of previous patients. The intern will need to find a way to generate a report similar to what is currently done on our application and improve it if required.

We expect this task to be completed after 4 months.

Scope of work (part 1):

* Analysis / understanding of the current website
* Creation of a REDCap project with instruments similar to the current one
* Export of the current database
* Import the data into REDCap
* Create a script to generate automatically a monthly report
* Work closely with the users to ensure the result matches their expectations

Software:

* Linux (Opensuse)
* REDCap
* R
* Python
* PostgreSQL
* Latex (current software used to generate monthly reports of the HIV Center)

Additional skills: The intern should be able to operate in an international environment with rigor, autonomy, curiosity and dynamism. English language will be necessary; however, most of IPC staff is Khmer.