



The Institut Pasteur in Cambodia (IPC) provides an internship of practical experience leading to the writing of a Master thesis, under supervision of IPC researchers.

Title of project.

**Distribution of mosquito species in 3 sites where
Japanese Encephalitis Virus is present.**

Supervisor at IPC, and contact.

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Duration.

6 months from 1st January until 31st July 2017

Eligibility.

Applicants should be in Master's program from the University of Health Sciences (UHS), Royal University of Agriculture (RUA), Royal University of Phnom Penh (RUPP) and Institut of Technology of Cambodia (ITC).

How to apply.

Applicants have to send a CV, motivation letter, 1 recommendation letter, including one from Director of Master's program, and academic results to IPC supervisor.

Selection procedure.

Applicants will be selected based on their application documents and interview. Uncompleted application documents will not be considered.

Desired submission date.

Before Sunday 04 December 2016

Brief description of objectives, methodology and expected outputs.

Japanese encephalitis (JE) is a severe disease that causes encephalitis, or infection of the brain. Up to 30 percent of people infected with JE die as a result of the infection, while another 40 percent are left with permanent disability including paralysis, mental retardation, recurrent seizures, or personality changes. In a **context** of Japanese Encephalitis (JE) endemism in South East Asia, i.e. JE virus is a public health priority in Cambodia, the study of the JE virus cycle is necessary.

Hosted by pigs and birds species, the virus is mainly transmitted by mosquitoes. JE virus has been isolated so far from at least 25 mosquito species. And its distribution is commonly described as linked to irrigated rice field and pig rearing (WHO, 2014). Nevertheless, data and information about JE's vector in Cambodia are lacking. Mosquito vector species diversity, vectors distribution, behavior of mosquitoes are amongst the main lacking data and represents a gap for research in order to understand vectors distribution for national vector control program.

The **main objective** of this study is to determine the presence of mosquito species potentially vector of JEV, and observe their trophic behaviour.

To attempt the objective, **field missions** will be organized every month in order to catch mosquito species, to determine the trophic behavior in parallel of the measurement of chicken seroconversion.