



Job Title: Engineer position in bioinformatics

A 29-month engineer position in bioinformatics is available in the Institut Pasteur de la Guyane (IPG), Cayenne, French Guiana.

Context: Present in French Guiana since 1940, the Institut Pasteur de la Guyane, a non-profit private foundation of public utility, is part of the Institut Pasteur International Network. Its missions are structured around four components: research, public health, education and services. The main research topics are focused on tropical infectious diseases. IPG is implementing a programme, called *STRonGer*, funded by the CAPACITY specific programme FP7-REGPOT-2011-1 (Grant agreement REGPOT-CT-2011-285837), that aims at fostering its research potential on emerging and infectious diseases. This programme is multidisciplinary and involves local and European research teams working on virology, parasitology, entomology, ecology, clinical research, epidemiology and phytochemistry.

Various programs are developing by IPG's research units in the field of emerging and infectious diseases among which whole genome analysis methods are increasingly used. Thus, IPG aims to develop its own capacities in analysing data from these new high-throughput genome analysis technologies.

Job Position: We are seeking a highly motivated, organised and enthusiastic engineer in the field of next generation sequence data analysis who will contribute to the implementation of our research program. These data will be generated from a wide range of organism extending from mammals to various microorganisms. It will start with mammals and parasite genomes. Candidates should hold a Master degree and possess practical experience in next-generation sequencing analysis. She/he will be in charge of analysis of next generation sequencing data. Familiarity with the concepts of molecular biology and genomics and motivation to work full time on sequencing projects using bioinformatics tools are required. By bringing her/his expertise to all the research teams, she/he will contribute to the capacity building objectives of *STRonGer*. She/he will be expected to play an active and collaborative role with all research units on campus.

Among other things, the candidate will work with the LIVH which addresses virus-host interactions with a particular interest for the genetics of the host. The aim of this project is to extend population-genomic approaches to mammalian species putatively acting as reservoir and hosts of virus and other pathogens, in relation with selection forces they faced. One of the objectives is to identify genes involved in local adaptation (adaptation to infectious pressures, environmental and ecological adaptations). Collaborations are implemented with the research group UMR EcoFog (Equipe « Ecologie des populations ») that provides its knowledge and expertise in population genetics, genomics and evolution.

A second step, will be a collaboration with the parasitology lab which aims to gain insight the resistance mechanism of *P. falciparum* against antimalarial drugs targeting the digestive vacuole. This issue will be investigated using French Guianan isolates recently adapted to *in vitro* multiplication and genotyped with a high throughput method.

For information about projects and recent publications, please visit: <http://www.pasteur-cayenne.fr/stronger> and <http://www.pasteur-cayenne.fr>.

Application: Please respond by e-mail (using the ref: LIVH 02) to Angéline Azanza (aazanza@pasteur-cayenne.fr) with a statement of interest and career objectives, CV, and names with contact information for three references. Application deadline: Open until filled.