# BIOSTATISTICIAN

**Open positions:** biostatistician postdoctoral/engineer

**Location:** U976, Hôpital Saint Louis, Paris, France

**Date posted:** February 2019

**Application deadline:** April 2019

## Job description summary

The research group of Pr. Vassili Soumelis (Inserm U976, Paris, France) is seeking a degree-qualified statistician scientist. The statitician will be dedicated to to **system immunology studies apply to human diseases** in the frame of fundamental and translationnal research projects.

## Context

Project will be developped under the supervision of Pr. Vassili Soumelis. The aim of the team is to improve the understanding of complex inflammatory and immune reactions, as well as basic mechanisms of signal integration and cell behavior.

His research group is integrated in the newly created INSERM Unit U976 HIPI: "**Human Immunology, Physiopathology and Immunotherapy**" at the St Louis Research Institute in the world-renowned Hôpital Saint Louis (Paris, France) in a both cultural and scientific rich environment. Hôpital Saint Louis is located in the heart of Paris, in the very lively and dynamic neighbourhood of Republique and canal Saint Martin. Hôpital Saint Louis hosted Pr Jean Dausset, a pioneer in Hematology and Immunology who received the Nobel prize in Medicine in 1980 for the discovery and characterisation of the genes making the major histocompatibility complex. The research campus is part of the Université Paris Diderot (Paris-Sorbonne-Cité) and hosts the headquarters of the European School of Haematology. The Immunology Unit includes 10 independent reasearch teams in the fields of basic and applied immunology, working in a collaborative and international environment.

The team offers the opportunity to expand and develop your career in an exciting professional environment promoted by an open culture and a spirit of community. The site has active seminar program and hosts regular training sessions in molecular and cellular biology. An active association for graduate and post-graduate students 'Adelih' is based on the research campus.

## Project

The open position is in line with recent developments at the interface between Immunology, Bioinformatics and Systems Biology. The project aim at studying the role of innate and immune cell subsets and inflammatory molecules in pathological context such as cancer, allergy and rare inflammatory diseases. The generated biological data are paired with clinical data with the objective of performing the data integration to identify diagnostic, prognostic and/or predictive biomarkers. To address these challenging questions, we are seeking a candidate to integrate the data and perform statistical modelling, mechanistic insight models, classification, and biomarker discovery.

## Mission

- Development of high-quality tools for data analysis, quality control and automatic processing
- Research and development of novel statistical algorithms and techniques
- Maintain internal and external collaboration and reporting
- Carry out technological and bibliographical surveys
- Present results and reporting

# Profile

Qualification:

- Master or PhD in biostatistic
- Expertise in data science, machine-learning, computational life science, computer science, computational biology, statistics or applied mathematics or equivalent degrees (engineering schools)
- Demonstrated strong programming skills in at least one programming language, e.g. Matlab or R


Desirable Knowledge, skills and abilities:

- Some knowledge in immunology is not mandatory but would be appreciated
- Knowledge in approaches for high-throughput data analysis, statistical modelling, and classification
- Knowledge of databases (i.e. pathway databases) and experience with high-performance computing environments
- Scientific rigor and excellent analytical and synthetic capabilities.
- Dynamic personality with passion for innovation and problem-solving
- Excellent interpersonal and communication skills and the initiative to actively communicate with data producers and data users in an interdisciplinary environment
- Ability to work independently and well-organized in a fast-paced work environment
- Good proficiency in English


The position will be funded for 24 months with possibility for extension.

Precise salary will depend on past experience of the candidate.

**Please send CV and two letters of reference to [vassili.soumelis@aphp.fr](mailto:vassili.soumelis@aphp.fr) and to [maude.delost@curie.fr](mailto:maude.delost@curie.fr)**