Position

Computer science for an interoperable multi-omics database implementation aiming at online integrative analysis (Paris, France)

Location

i**³** laboratory (www.i3-immuno.fr), located on the Pitié-Salpêtrière hospital campus in Paris (13ème)

Job description

The **i₃** laboratory is seeking to recruit 1 computer scientist (Engineer, MSc or PhD) with interest in high-throughput data analysis and management in the field of immunology.

This position is supported by a H2020 research grant and benefits from an ANR research grant:

- ✓ iReceptorPlus is an *H2020 grant* aimed facilitating sharing of genomic and health Data, with a focus on Adaptive Immune Receptor Repertoire (AIRR) data (www.ireceptor-plus.com);
- ✓ Trans*i*mmunom is a *Laboratory of Excellence* aimed at deep phenotyping of 1000 patients with various AIDs (www.transimmunom.fr);

The computer scientist will be hired for improving, developing, implementing and connecting a multi-omics database to the AIRR Data Commons, an international network of AIRR repositories. Tasks will include database specification in strong collaboration with bioinformaticians and biologists as well as interoperability of the database with the iReceptor Analysis Web Portal in strong collaboration with the partners of the project.

The laboratory offers an interdisciplinary environment, including biologists, immunologists, clinicians, computer scientists and bioinformaticians. The current IT infrastructure core services rely on Hyper-V, Windows Servers 2012, and OpenStack, Active Directory, SharePoint Foundation 2013 & SQL Server 2012 hosted in the **i₃** laboratory.

Candidate profile

A MSc or PhD is required in either bioinformatics, biostatistics, statistics, mathematics or computer science depending on the project. Significant experience with R tools and coding languages (Python, C++), as well as high throughput data analysis, management and integration are required. Experience with database design and development in an SQL and/or MongoDB environment are preferred.

Job Opening and Salary

Positions are currently for 3 to 4 years. Salary will be commensurate to experience.

Application

Application shall include a motivation letter, CV and references.

Please send application in English by email to encarnita.mariotti@sorbonne-universite.fr.

Please apply only if you fulfil the abovementioned skills. This job offer will be closed as soon as the position is filled.