Open position for a Research Engineer in Bioinformatics for Proteomics

Context and environment:

The Institut Pasteur is a non-profit private foundation dedicated to fundamental, interdisciplinary research and to translating scientific knowledge to medicine and public health. Topics of research cover microbiology and infectious diseases, cell biology, immunology, developmental biology and stem cells, neuroscience, genomics, genetics and cancer. The Paris campus houses 130 research units belonging to 11 research departments, employing about 2,600 people. It is recognized worldwide as a leader in infectious disease research and is ranked as a top-level institution for publication impact in the field of microbiology and neuroscience.

The Mass Spectrometry for Biology UTechS (MSBio) headed by Julia Chamot-Rooke is a mixed Institut Pasteur/CNRS Unit (USR 2000). The Unit provides service and research activities in proteomics. The proteomics facility, headed by Mariette Matondo, provides service and collaboration mainly in bottom-up proteomics. The research group develops new pipelines in top-down proteomics and structural proteomics (cross-linking MS, HDX-MS, native MS).

A research engineer position in bioinformatics is available in MSBio UTechS, with a shared activity between the facility and the research group. The engineer will also have tight interactions with facility users as well as with the C3Bi (Center of Bioinformatics, Biostatistics and Integrative Biology).

Main activities:

- Implement existing bioinformatics pipelines and develop new ones for the analysis and visualization of proteomics data obtained by high-resolution mass spectrometry (bottom-up proteomics, top-down proteomics, cross-linking mass spectrometry)
- Advise users on existing software tools and bioinformatics pipelines
- Analyze mass spectrometry and proteomics data
- Ensure an active monitoring of scientific literature in bioinformatics for proteomics
- Provide user training in bioinformatics
- Participate into the writing of scientific publications

Candidate's profile:

- Master or PhD degree in (bio)informatics
- Basic knowledge in biochemistry or MS-based proteomics
- A first experience in bioinformatics applied to proteomics is appreciated
- Technical skills: computational languages (among C++, SQL, XML, Python, …)
- Flexibility and ability to work in a multidisciplinary environment on multiple scientific projects
- Good communication and interpersonal skills and experience in presenting concepts and data in oral and written formats
- Scientific rigor
- Experience in teaching bioinformatics/biostatistics will be a plus.

If you are interested, please send your CV and motivation letter to recrutement@pasteur.fr.