



Proteomics Bioinformatician

Employer : Protein Analysis facility, Center for Integrative Genomics, University of Lausanne, Lausanne, Switzerland (**100%**) and Swiss institute of Bioinformatics (SIB)

Starting time : August 1st, 2008 or as soon as possible

Tasks :

- 1) Maintenance of IT infrastructure : administration of LINUX servers, updates, troubleshooting in collaboration with the Vital-IT infrastructure.
- 2) Maintenance and update of a web server (MASCOT) for large scale protein identification with Mass Spectrometry data
- 3) Regular updates of protein and genomic sequence databases from public servers ; creation of *ad hoc* databases for specific projects (species-specific or other)
- 4) General data parsing, file conversion and data mining tasks. Use and understanding of major standards in proteomics (e.g. mzXML, PSI-MIAPE etc).
- 5) Implementation, adaptation and automation of tools for interpretation of large proteomics datasets : protein annotation parsing, protein interactions.
- 6) Test of novel open source software packages that become available for the analysis of proteomics data, especially for protein quantification techniques.
- 7) Installation, optimisation and further development of a LIMS (Laboratory Information Management System) for the facility but possibly also as a common resource for other academic facilities in the region. This part of the work is accomplished in collaboration with the Swiss Institute of Bioinformatics (SIB).

Ideal profile :

- Computer scientist with bioinformatics knowledge or biologist/chemist with general bioinformatics (DEA) training
- Knowledge of : UNIX (LINUX) and Windows operating systems ,Ruby, Perl, C++, PHP, web based application development, Java, relational databases (SQL or others), work with DNA and protein sequence databases
- strong team working capacity
- good english proficiency (written, spoken)
- working experience in a proteomics or genomics lab

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The recruited candidate will integrate and support the PAF team of proteome scientists but will also be in close contact and supported by bioinformatics groups affiliated to the SIB, such as those of the VITAL-IT high performance computing platform and the Proteome Informatics Group. The position will also feature extensive interactions with the other proteomics platforms in the lemanic area as well as biologists and researchers at all levels.

Links : www.unil.ch, www.unil.ch/paf, www.unil.ch/cig, www.vital-it.ch, <http://www.isb-sib.ch/>, http://www.isb-sib.ch/groups/Proteome_Informatics_Group.htm

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