Università della Svizzera italiana

Institute for Research in Biomedicine

Bioinformatician / Data Scientist

About the IRB

The Institute for Research in Biomedicine (IRB; www.irb.usi.ch) in Bellinzona, Switzerland, is an internationally recognized research center. The activities of its 13 research groups, range from human immunology to the fields of DNA repair, rare diseases, structural and cell biology. Since 2009, the IRB is affiliated with the Università della Svizzera italiana (USI) and is part of the newly created Faculty of Biomedical Sciences, which started a Master of Medicine program in 2020. The IRB is also affiliated with the Swiss Institute of Bioinformatics (SIB) and has a collaboration agreement with ETH Zurich.

IRB benefits from a wide international network of collaborations and provides teaching and training programs for graduate students from Swiss and foreign Universities. So far, over 100 IRB students have successfully defended their thesis and obtained excellent positions at leading institutions all over the world. The IRB is supported by grants from the European Union, the Swiss National Science Foundation, the Bill & Melinda Gates Foundation, the National Institutes of Health, and other agencies and foundations.

Responsibilities

The IRB is recruiting an outstanding data scientist for our bioinformatics core facility (BCF). The BCF closely collaborates with IRB scientists and provides support for the analysis of large data sets. As a member of the BCF you will develop novel approaches at the intersection of data collection, analysis and integration. You will be working with a range of genomic and cellular data types, including single-cell RNA sequencing, B and T cell repertoires and mass spectrometry analyses, multi-omics data integration, functional analysis at systems biology level, statistical and computational support. Furthermore, you will be adding statistical rigor to experimental processes. An ideal candidate will be enthusiastic about using data science and bioinformatics to further our understanding of the immune system.

You profile

Applicants should hold a Master or a PhD degree in bioinformatics or/and life sciences, with an excellent background in NGS analysis and relevant experience in the field. Wet lab experience a plus.

Other requirements:
- Knowledge of the latest bioinformatics pipelines for data analysis
- Good knowledge of scripting and programming languages used in data science (e.g., bash, R and Python) and of the UNIX/Linux environment.
- Experience in analysis of human sequence data using bioinformatics tools and omics databases
- Experience in the analysis of single cell data

Exciting work environment and a competitive salary are offered for this full-time position of strategic importance to the growth of the institute. Remote working may be possible for a portion of the time.

Please send your application to applications.jobs@irb.usi.ch, including a cover letter with expected availability date, CV, a complete list of publications and the contact address of at least 2 references.

Application deadline: May 15, 2021.

Earliest start: immediate.