

JOB OPENING AT IRB BARCELONA

RESEARCH OFFICER - BIOINFORMATICIAN (ref. CF/17/04)

IRB Barcelona is a world-class research centre devoted to understanding fundamental questions about human health and disease. It was founded in October 2005 by the Government of Catalonia (Generalitat de Catalunya) and the University of Barcelona (UB), and is located at the Barcelona Science Park (Parc Científic de Barcelona).

The Institute's missions include conducting multidisciplinary research of excellence at the unique interface between biology, chemistry and medicine, providing high-level training in the biomedical sciences to staff, students and visitors, driving innovation through active technology transfer to the benefit of society, and actively participating in an open dialogue with the public through a series of engagement and education activities.

IRB Barcelona seeks

A Research Officer-Bioinformatician specialized in proteomics for the Mass Spectrometry and Proteomics Core Facility.

DUTIES

- Development and implementation of data analysis workflows and dedicated softwares for specialized proteomics and mass spectrometry applications.
- Statistical and high-throughput proteomic data analysis both by bottom-up and top-down proteomics. Improvement of existing workflows for quantitative data analysis. Use and tune de novo sequencing engines. Functional analysis of proteomic data, functional classification and pathway analysis.
- Development and implementation of software for structural proteomics: crosslinking applications, ion mobility collisional cross section calculations, molecular modeling, HDX, affinity applications.
- Collaborate with the storage of big data, and with the maintenance of software for facility management
- Work very closely with the Senior Research Officer at the facility as well as with the Biostatistics Unit.
- Train the members of the MS and Proteomics Facility in the use of dedicated software and data analysis workflows.

EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

Must Have - Required

- Experience: Experience in the analyses of proteomics and mass spectrometry data and in the use of specialized proteomics software (MaxQuant, Sequest, Skyline, Progenesis, Crosslinking software, MassLynx, HDX search engines)
- Knowledge: A Master's degree in Computer Science, Statistics, Mathematics, Bioinformatics, Computational Biology, Chemistry/Physics or a related discipline. Solid knowledge of statistics and R programming language

Skills: Strong programming/scripting skills



IRB BARCELONA endorses the Requirements and Principles of the *European Charter for Researchers*, the *Code of Conduct for the Recruitment of Researchers* and Open, Transparent, Merit-based recruitment promoted by the European Commission and follows Equal Opportunities policies.

On 9th December, 2014, IRB Barcelona was awarded the "HR Excellence in Research" logo. This recognition reflects the commitment of the Institute to continuously improving its human resources policies in line with the *Charter & Code*. The Institute works to ensure fair and transparent recruitment and appraisal procedures.

Desirable

- Experience: Experience in computational chemistry/physics, molecular dynamics simulations, gas phase calculations would be a plus
- Knowledge: Knowledge of other programming languages such as C, Java, Perl or Python, SAS and Matlab
- Skills: Willingness to work for users and to develop software for the facility on demand. Flexibility.

WORKING CONDITIONS & ENTITLEMENTS

- **Working conditions:** Employed in compliance with Spanish legislation and regulations under a full-time contract. Employees receive the benefits of the Spanish Social Security system covering sickness, maternity/paternity leaves and injuries at work. Salary commensurate with experience and qualifications.
- **International Environment:** The opportunity to join a prestigious international research institution and become a member of an established research group.
- **Continuous training** in a high-quality environment.

HOW TO APPLY & SELECTION PROCESS

Applications for the above opening should include a **reference** and should be sent by e-mail to: irbjobs@irbbarcelona.org Reference: **CF/17/04**

- **Deadline for applications:** *10/12/2017*
When the applicants do not fit the requirements, the deadline will be able to be extended.
- **Number of positions available:** *1*
- **Selection process**
 - **Pre-selection:** Will be based on CV, motivation letter, experience, management of research and innovation.
 - **Interviews:** Short-listed candidates will be interviewed.
 - **Offered Position:** Job Offer will be sent to the successful candidate after the interview.

For more information please visit our website at: www.irbbarcelona.org

Note: The strengths and weaknesses of the applications will be provided upon request.

If you, as an applicant, have any suggestion or wish to make a complaint regarding the selection process, please contact us at the following email address: irbrecruitment.suggestions@irbbarcelona.org You will receive a response within a month.