

JOB OPENING AT IRB BARCELONA

Research Assistant (ref. LAB/23/40)

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 Assistant for the Molecular Modeling and Bioinformatics group.

An enthusiastic programmer to join our structural bioinformatics team in the **Molecular Modeling and Bioinformatics** group (**Structural Bioinformatics** Program), under the framework of the "iDATA-MP", co-funded by the *Instituto de Salud Carlos III* and the *Fondo Europeo de Desarrollo Regional (FEDER)*, *una manera de hacer Europa*, in the call: *Infraestructura de Medicina de precisión asociada a la ciencia y tecnología (IMPACT)*. Referencia: IMP/00019

DUTIES

We are looking for a candidate to work on **research software development**, designing, developing and maintaining **biomolecular simulation tools and workflows** to make them available to the scientific community.

Our **informatics team** works building a **bridge** between **researchers** (biologists, chemists, physicists, mathematicians, etc.) and the **computational science** field, applying **software best practices** to the existing codes, making them more **usable, reproducible and interoperable**

EXPERIENCE, KNOWLEDGE, SKILLS & SELECTION CRITERIA

Must Have - Required

- Bachelor degree or higher in **Computer Science, Bioinformatics, Biotechnology, Biomedicine** or similar.
- Programming Languages: **Python, R**
- Version-control systems: **Git (GitHub, GitLab)**
- Software packaging (**Conda, Containers**)
- **Fluent English** and good teamwork skills.
- Excellent **Linux OS** skills.

Knowledge of the following technologies is advisable

- Programming languages C, Fortran, Perl
- Read the Docs documentation process
- noSQL databases (MongoDB or similar)
- iPython interactive computing (Jupyter)
- Environment Modules (HPC)
- Spack package manager
- VM/container deployment in Cloud infrastructures

WORKING CONDITIONS & ENTITLEMENTS

- 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.
- The unique opportunity to work within an international consortium that brings together the most prominent European researchers in the field of computational biology.
- The unique opportunity to work closely with a High Performance Computing (HPC) centre as the Barcelona Supercomputing Centre (BSC), with one of the most powerful supercomputers in Europe (Marenostrum IV), and recently selected by EuroHPC to host one of the largest European supercomputers (Marenostrum V).
- The possibility to work in multiple state-of-the-art platforms, such as Cloud infrastructures, Docker containers or HPC supercomputers.
- The unique opportunity to work in a multidisciplinary group which is currently involved in several National and European projects related to computational biology.
- Salary commensurate with experience and qualifications.

HOW TO APPLY & SELECTION PROCESS

Applications for the above opening should include **CV and motivation letter** and should be sent by e-mail to: adam.hospital@irbbarcelona.org Reference: **LAB/23/40**

- **Deadline for applications:** 08/03/2024
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.