

## MASTER POSITION AT THE INTEGRATIVE BIOINFORMATICS GROUP (Ref. 2304 - PIÑERO)

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### OFFERS:

The IBI group is looking for a student with the capacity to offer technical support for the tools generated in the group. The group is part of the Research Programme on Biomedical Informatics (GRIB), a joint research programme of the Hospital del Mar Medical Research Institute (IMIM) and the Department of Experimental and Health Sciences of the Universitat Pompeu Fabra. The group is located in the Barcelona Biomedical Research Park (PRBB) next to the sea. The PRBB is more than just a research institution, it is a unique creative space that connects science and diversity. By becoming a member of its research community, the candidate will have access to conferences, networking opportunities, training events, and beach volleyball tournaments.

The successful candidate will be involved in developing analytical workflow for disease genomics data analysis in the context of IMPaCT-Genómica project, funded by the Instituto de Salud Carlos III. More concretely, the candidate will develop data analysis workflows for data gathering, integration, analysis and visualization of genomic and other omics dataset to support the functional interpretation of risk variants associated with human diseases. The candidate will interact with the Spanish clinical genomics community and will participate in networking, communication and training activities.

We offer a full time contract for a period of 8 months with possibility of extension, annual gross salary of 21.500€.

### Relevant publications:

- The DisGeNET knowledge platform for disease genomics: 2019 update. Janet Piñero, Juan Manuel Ramírez-Anguita, Josep Saüch-Pitarch, Francesco Ronzano, Emilio Centeno, Ferran Sanz, Laura I Furlong. *Nucleic Acids Research*, Volume 48, 2020
- Functional Genomics Analysis to Disentangle the Role of Genetic Variants in Major Depression. Pérez-Granado, J., Piñero, J., Medina-Rivera, A., & Furlong, L. I. (2022). *Genes (Basel)* 2022 Jul 15;13(7):1259. doi: 10.3390/genes13071259.

- Benchmarking post-GWAS analysis tools in major depression: Challenges and implications. Pérez-Granado, J., Piñero, J., & Furlong, L. I. (2022). *Frontiers in Genetics*, 13. <https://doi.org/10.3389/fgene.2022.1006903>

**Requirements of the candidates:**

- ✓ Master Degree in one of the following areas: mathematics, physics, chemistry, biochemistry, informatics, human biology, biomedical engineering.
- ✓ Expertise in data analytics in R or Python, bioinformatic workflow development (e.g. Nextflow).
- ✓ Familiarity with Linux, bash, and version control systems (e.g. git).
- ✓ Fluent spoken and written English.

**Project:**

Project iDATA-MP funded by the Instituto de Salud Carlos III under the call “Infraestructura de Medicina de Precisió associada a la Ciència i Tecnologia (IMPACT)”.

Official number reference: IMP/00019

**For more information and to submit your curriculum vitae**, contact by mail to Janet Piñero ([janet.pinero@upf.edu](mailto:janet.pinero@upf.edu)) indicating reference “IMPACT”.

**Deadline for submission of CV:** Feb 28<sup>th</sup> 2023