



The Vall d'Hebron Research Institute (VHIR) is a public sector institution that promotes and develops the research, innovation and biosanitary teaching of the Vall d'Hebron University Hospital. Through the excellence of our research, we identify and apply new solutions to the health problems of society and we contribute to spread them around the world.



In April 2015, the **Vall d'Hebron Research Institute (VHIR)** obtained the recognition of the European Commission **HR Excellence**. This recognition proves that VHIR endorses the general principles of the **European Charter for Researchers and a Code of Conduct for the Recruitment of Researchers (Charter & Code)**.

Thus, there are no restrictions of gender, national origin, race, religion, sexual orientation or age and **candidates with disabilities are strongly encouraged to apply.**

## High level technician Clinical and Translational Research Group

VHIR offers vacancy/vacant position for a High level technician within the Clinical and Translational Bioinformatics Research group

More information about our group can be found here: <http://www.vhir.org/portal1/grup-equip.asp?t=bioinformatica-clinica-i-translacional&s=recerca&contentid=186936>

### JOB DESCRIPTION

#### Education and qualifications:

##### Required:

- Ph.D. degree in a Bioinformatics Project
- Master in Bioinformatics
- Bachelor of Science in Life Sciences, Genetics, Biotechnology

#### Experience and knowledge:

##### Required:

- Recognized expertise in the development of predictive models for missense variants in BRCA1/2 proteins
- High-level expertise in Python programming and Python data analysis tools (Jupyter Notebook, Biopython, Tabix, Pandas, Numpy, Scipy, Scikit-Learn, etc.)
- Experience in bioinformatics analyses for biomedical/clinical applications of the following genomics experiments: Whole Exome Sequencing (WES), RNAseq, ChIPseq
- Experience in:
  - Web development (Django, HTML5, CSS3, JavaScript, etc.).
  - genomics-related databases, particularly UniProt, PDB, etc.
  - System administration of Mac and Ubuntu computers, NAS storage, etc.
  - development of cost models for variant interpretation tools

### Desired:

- Experience in chromatin structure and epigenetic/epigenomics-based analyses
- Knowledge of Structural Bioinformatics tools: homology modelling, biophysics computations of protein properties (protein stability, etc.), graphical analysis (e.g. PyMol)
- Skills in data analysis and visual representation
- Knowledge of the Human Phenotype Ontology, HGMD, and other genomics-related databases

### Main responsibilities and duties:

- Take the lead of our core research line on protein-specific predictors for BRCA1/2 missense variants
- Manage our collaboration with the Oncogenetics group (VHIO) and the Immunogenetics Area (VHIR) at the Vall d'Hebron Hospital
- Any work required for any other ongoing or new collaboration: analysis of epigenetic/epigenomics data, of RNAseq experiments (bulk and single-cell), of WES, etc; structural analyses of protein systems; etc.
- All aspects related to the management of our computer systems, from backups to updates
- Provide explicit support to the research in our group: development of Python scripts, database preparation and management, Web programming, etc.
- Managing equipment and software purchases

### Labour conditions:

- Start: 1st of January, 2021
- Length of the contract: 12 months
- Gross Annual Salary: 38.900 euros

### What can we offer?

- Skilful and social colleagues in a dynamic environment.
- Challenging tasks and a wide range of responsibilities
- Personal training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more).
- Annual teambuilding events.

### How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference CLINTRABI to the following email addresses: [xavier.delacruz@vhir.org](mailto:xavier.delacruz@vhir.org) and ([seleccio@vhir.org](mailto:seleccio@vhir.org)) .