



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.



HR EXCELLENCE IN RESEARCH

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**).

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Postdoc in Computational Biology

Cancer Computational Biology Group

The Cancer Computational Biology Group, headed by José A. Seoane, PhD leverages epi(genetic) cancer datasets to unmask the molecular mechanisms implicated in cancer initiation, progression, drug resistance and metastasis toward improved outcomes for patients. We are also exploring how the machine learning-based integration of multi-omic datasets can facilitate the discovery of new cancer subgroups and biomarkers, as well as help to better predict treatment outcomes and drug response.

We are looking for a highly motivated postdoctoral scientist with an interest in the development and application of computational tools to analyze cancer omics data. We are seeking a computational scientist with an interest in cancer research.

The candidate will participate in the research projects from the lab and has the opportunity to collaborate with world-leading biologists/physicians of the different groups of VHIO and external collaborators. The group supports the participation of the candidate in (inter)national scientific conferences and the publication of the obtained results in high-impact journals.

The group supports a healthy work-life balance and offers a 4 years full-time (40 hours) appointment.

JOB DESCRIPTION

Education and qualifications:

Required:

- PhD Degree in Computer Science, Data Science, Bioinformatics, Biomedical Engineering, Mathematics or similar
- Specific training in Machine learning or Data science
- Fluency in English (business level)



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Desired:

- Additional training in bioinformatics

Experience and knowledge:

Required:

- Experience in machine learning and/or data science
- High motivation

Desired:

- Knowledge of main machine learning packages in R/Python
- Matlab
- Experience in the analysis of genomics, digital pathology, cancer, and/or epigenetics-related datasets is desired but not required

Main responsibilities and duties:

- The candidate will lead the TACTICS project at the Cancer Computational Biology group
- The candidate will work closely with a data scientist and the PI in developing and adapting machine learning pipelines for multi-omic/WSI classification or clustering of cancer datasets.
- Study of the state-of-the-art of the multi-omic algorithm for prediction and clustering
- Develop the methodology for developing and testing multi-omic pipelines
- Testing of new algorithms, adapt previously developed algorithms
- Give support to the member of the lab in similar tasks



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- Collaborate with other groups at VHIR and VHIO
- Prepare reports of results and manuscripts for conferences and journals

Labour conditions:

- Full-time position: 40h/week.
- Starting date: immediate (we can be flexible)
- Gross annual salary: Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale
- Contract: Temporary linked to project

What can we offer?

- Incorporation to Vall d'Hebron Research Institute (VHIR), a public sector institution that promotes and develops the biomedical research, innovation and teaching at Vall d'Hebron University Hospital (HUVH), the biggest hospital of Barcelona and the largest of Catalan Institute of Health (ICS).
- A scientific environment of excellence, highly dynamic, where high-end biomedical projects are continuously developed.
- Continuous learning and a wide range of responsibilities within a stimulating work environment.
- Individual training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more)
- Corporate Benefits: platform through which you can obtain significant discounts on travel, culture, technology, gastronomy, sports... among many others.
- Healthy Offering: choose from a variety of wellbeing focused activities to be the healthiest you.



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How to apply:

Applicants should submit a full Curriculum Vitae, contact of 2 referees and a motivation letter with the reference **“Postdoc_fortalece_CCB”** to the following email addresses: joseaseoane@vhio.net and seleccio@vhir.org. Contact with joseaseoane@vhio.net for informal queries

Deadline to apply: 17-05-2024

The Fundació Hospital Universitari Vall d'Hebron-Institut de Recerca - "VHIR"-, with NIF G-60594009, address in Barcelona -08035-Passeig Vall d'Hebron 119-129, Edifici Mediterrània, 2a planta and telephone (34) 934 89 30 00 is the data controller for the processing of your personal data. The data will be processed exclusively for the purpose of managing your participation in the selection process, as well as, if necessary, managing your participation in other selection processes.

Unless you give your informed consent to keep your personal data for future selection processes, in the event that the selection process is completed and you are not the person selected, your personal data will be deleted and blocked in order to be able to respond to any possible liabilities that may arise.

The legal basis of the processing is the execution of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract.

The recipient of the data will be the VHIR's Professional Development personnel and no transfer of personal data is foreseen, except for the fulfilment of legal obligations applicable to the data controller. International data transfers are not foreseen. No automated decisions will be taken, including profiling. In general, personal data will not be communicated to third parties, except for legal obligations in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 (GDPR) to persons who are entitled to request them. You have the rights of access, rectification, deletion, portability, limitation and opposition that can be exercised at any time through the email dpd@ticsalutsocial.cat or lopd@vhir.org. In compliance with Regulation (EU) 2016/679, the VHIR has appointed a data protection officer, whose contact details are dpd@ticsalutsocial.cat. You can also lodge a complaint with the competent Data Protection Authority by contacting www.apdcat.cat or www.aepd.es.