



## The Vall d'Hebron Institute of Oncology (VHIO) Seeks a “Computer Scientist to Join the Radiomics Group”

**Reference:** Ref. 15-2021

**Application deadline:** 31/05/2021

**Number of vacancies:** 1

### **Job description:**

The Vall d'Hebron Institute of Oncology's (VHIO) Radiomics Group, headed by Raquel Perez-Lopez (MD,PhD), is currently seeking to appoint a Computer Scientist.

This post is a great opportunity to be involved in a broad range of cutting-edge computer science research within the translational research environment of the Vall d'Hebron Institute of Oncology (VHIO), Barcelona (Spain). VHIO is a leading Comprehensive Cancer Centre dedicated to translational cancer research and one of the world-leading drug-development centers for cancer care. The Radiomics Group at VHIO is focused on medical image processing and development of imaging biomarkers for precision medicine.

The successful candidate will be involved in back-end and front-end software development integrating the medical-decision-supporting tools developed by the group. The ultimate goal of his/her tasks will be to facilitate implementation of these new assays into clinical practice.

The candidate will provide support in computational analysis of medical images (radiomics) and integration with other -omics (i.e., genetic and histological data) within the group's projects. Finally, the candidate will also assist in the management of the Unix computer cluster used by the group for intensive image processing.

The Radiomics Group at VHIO is committed to the continued training of their scientists. A personal training and development plan will be agreed with the candidate.



HR EXCELLENCE IN RESEARCH

Vall d'Hebron Institute Oncology (VHIO) endorses the Requirements and Principles of the European Charter for Researchers, the Code of Conduct for the Recruitment of Researchers promoted by the European Commission and follows Equal Opportunities policies.

On 10th April 2018 VHIO was awarded the “HR Excellence in Research” logo. Our Institute was consequently granted permission to use the HR Excellence in Research Award logo as demonstration of its stimulating and favourable work environment in line with the Charter & Code.

## Requirements:

- Bachelor's degree in computer science, informatics engineering or related degree.
- Knowledge of the software development life-cycle.
- Computer, problem solving and analytical skills.
- Experience using and administrating Unix systems.
- Statistical modelling, machine learning and deep-learning knowledge is a plus.
- Fluent in Python and Unix (bash) scripting, other programming languages (e.g., R, Julia) will also be positively valued.
- English proficiency.

## Additional information:

An organized and motivated, team-oriented individual with previous experience in computational engineering and software development. The ideal candidate should have previous experience in machinelearning and deep-learning models. Being familiar with medical image analysis and biomarker development will be positively considered.

The candidate is expected to be able to communicate in English, even if it is not his/her first language. The candidate will progressively be involved in preparing grant proposals and scientific manuscripts.

## Application:

Potential candidates should submit a curriculum vitae and letter of intent via email addressed to Raquel Perez-Lopez: [rperez@vhio.net](mailto:rperez@vhio.net)

## About VHIO:

Under the leadership of Josep Taberero, the Vall d'Hebron Institute of Oncology (VHIO), has established itself as a comprehensive cancer center of proven excellence internationally. It is also thanks to VHIO's optimal organizational structure based on a purely multidisciplinary and translational model that VHIO talents continue to anticipate and tackle the many unresolved questions in combatting this multifaceted and heterogeneous disease.

Located within the Vall d'Hebron Barcelona Hospital Campus, our researchers closely collaborate and interact with Vall d'Hebron physician-scientists. Translational science and clinical research are therefore tightly connected which promotes superb interaction and teamwork which, in turn, accelerates the bench-bedside-bed cycle of knowledge. This privileged environment affords VHIO direct access to patients as well as the entire spectrum of oncology professionals who care for them, and a second-to-none appreciation of how cancer science can translate into more powerful, targeted treatments and better practice for the care of patients. VHIO's pioneering model and programs, coupled with its belief in combining strengths through cross-border collaborations, continue to spur advances in reversing cancer resistance, halting metastatic spread, and more effectively treating even the most undruggable tumor types.

**VHIO's translation toward precision oncology: <http://www.vhio.net>**



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