The Vall d´Hebron Institute of Oncology (VHIO) Seeks a "Post-doctoral Researcher in AI in Medical Imaging for the Radiomics Group"

Reference: 2024-028-01

Application deadline: Until the position is filled.

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 post-doctoral researcher.

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 participate in several research projects applying AI to medical imaging and integrating radiomics, pathomics, and genomics to develop novel predictive biomarkers for cancer therapy. The ultimate goal of their tasks will be to facilitate the implementation of these new assays into clinical practice.

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.

We seek:

An organized and motivated, team-oriented individual with previous experience in computational engineering and AI modelling. The ideal candidate should have previous experience in medical imaging analysis and data integration. Being familiar with decentralized machine learning models (e.g., federated learning) 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.

Requirements:

- Bachelor's degree in computer science, informatics engineering, biomedical engineering or related degree.
- PhD in computer science, computer vision, computational imaging, artificial intelligence or a similar field.
- Computer, problem solving and analytical skills.
- Statistical modelling, machine learning and deep-learning knowledge.
- Fluent in Python scripting, other programming languages (e.g., R, C++) will also be positively valued.
- English proficiency

Additional information:

Desired:

- Prior experience in medical imaging analysis and -omics integration
- Prior experience with decentralized machine learning models

Conditions:

- Full-time position: 40h/week
- Starting date: immediate
- Gross annual salary: remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale
- Contract: temporary/permanent linked to project

What can we offer?

- Incorporation to Vall d'Hebron Institute of Oncology (VHIO)
- 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
- Personal training opportunities
- Flexible working hours.
- Teleworking (part-time)
- 23 days of holidays + 5 personal days
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more)

Application:

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

Review of applications will commence immediately.

About VHIO:

Under the leadership of Josep Tabernero, 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**
Radiomics Group: **https://www.vhio.net/programs-groups/clinical-research/radiomics-group**