

The Vall d'Hebron Institute of Oncology (VHIO) Seeks a “Image Data-Software Engineer”

Reference: Ref. 2024-031-01

Application deadline: 27/06/2024

Number of vacancies: 1

Job description:

The **Molecular Oncology Group** is seeking a data-image engineer to design and manage databases (mainly images databases for digital pathology and digital radiology), assist in new algorithm development, and web applications for translational and clinical research. Also, define and work on software integrations between different platforms for algorithm application in routine care or research. Applicants must have a degree in Data Engineering, Software Engineering or Computer Science, and those with degrees in Biomedical Engineering, Bioinformatics, or other related fields will be considered if they have proven experience in programming, data management and software development.

It is critical for applicants to stay up to date with the latest developments in systems and coding, self-learn new technologies, and gradually become more autonomous. The ideal candidate will be able to work independently as well as collaboratively with the team.

The selected candidate will have the opportunity to work in a dynamic and challenging environment with cutting-edge technologies and to contribute to the development of innovative solutions for oncology research.

Responsibilities:

- Image processing, image analysis and image understanding for clinical research.
- ETL, Data Integration and Data quality, image indexing and image application management
- Analyze, design, and develop new tools for clinical research.
- Provide ongoing maintenance, support and enhancements in existing systems and platforms.
- Provide recommendations for continuous improvement.

Requirements:

- Degree in Software Engineering or Computer science is essential. Applicants with degrees in biomedical engineering, bioinformatics or other related fields will be considered if they can prove experience in programming and software development.
- A passion for solving problems and providing workable solutions.



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.

- Strong analytical and reasoning skills with an ability to visualize processes and outcomes.
- Outstanding communication skills and ability to work in a cross-disciplinary team.
- Fluent technical communication skills in English.
- Experience in modern programming object-oriented languages, especially Python.
- Experience in image processing and image analysis. Visiopharm, Raimviewer, Starviewer, SyngoVia, Kaapana, Odelia, Dicom format, xnat format will also be favourably considered.
- Experience with relational databases and SQL.
- Experience working within ETL and Data Integration
- Experience within Data Integration and common challenges faced with diverse data sets and data quality.
- Experience with API integrations.
- Experience working with infrastructure automation technologies like Docker.

Additional information:

Conditions:

- Full-time position: 40h/week
- Starting date: immediate
- Gross annual salary will depend on experience and skills. and always guaranteeing the minimum remuneration established in the VHIO collective agreement for each professional category.
- Contract: permanent linked to project

What can we offer?

- Incorporation to Vall d'Hebron Institute of Oncology (VHIO).
- Continuous learning and a wide range of responsibilities within a stimulating work environment.
- Personal training opportunities.
- Flexible working hours.
- Teleworking (part-time) according to VHIOs collective agreement
- 23 days of holidays + 5 personal days
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more)
- Access to VHIO's personal development and training plan.
- Being part of a center that is constantly developing, highly competitive, seeking excellence in research and collaborating with leading teams.



- We offer and promote a diverse and inclusive environment and welcome all people equally, regardless of age, disability, gender, nationality, race, religion, or sexual orientation.

This role will be part of the Digital Oncology Group (Ref. 2021SGR1571) lead by the Molecular Oncology Group and integrated by the Cancer Computational Biology group, the Radiomics Group, the Oncology Data Science Group and the Bioinformatic Unit in various projects, including collaboration with Vall d'Hebron hospital. The main goal of the Digital Oncology Group is to accelerate the research and implementation of cutting-edge data science models and technology platforms in the healthcare domain for personalization of patient care at VHIO by developing a platform for integration of digital health and data science for cancer research and clinical applications.

This role involves working closely with the IT Department and the Severo Ochoa Digitalization Unit.

Application:

Potential candidates should submit a curriculum vitae and a letter of intent via email to selecciorrh@vhio.net, including the reference "Ref. 2024-031-01" in the subject line of your email.

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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