Image Processing Data Position

Medical Molecular Imaging Research Group

Vall d'Hebron Research Institute (VHIR) is a public sector institution, located in Barcelona (Spain) that promotes and develops innovative biomedical research at the University Hospital Vall d'Hebron. VHIR is oriented towards finding solutions to the health problems of the citizens and has the will to contribute to the scientific, educational, social and economic development within its area of competence around the world.

We would like to analyze the effect of Type 2 Diabetes in different organs, mainly their effect on brain, heart, and liver, to find diagnostic or predictive biomarkers that can be used in clinics for the personalize management of patients as well as delve into the physiopathology of this disease. For more information, please contact with raul.herance@vhir.org or see last publications in the groups about this topic: JR Herance et al. J Pers Med. 2022;12(1):30; JR Herance et al. Int J Mol Sci. 2022;23(15):8783; Q Martín-Saladich et al. Int J Mol Sci. 2023;24(4):3250.

VHIR offers vacancy/vacant position for a position within the Medical Molecular Imaging Research Group. More information about our group can be found here https://vhir.vallhebron.com/en/research/molecular-medical-imaging. More information can be found: https://vhir.vallhebron.com/en
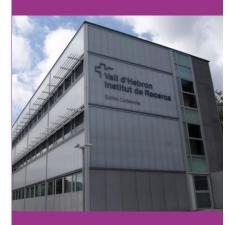
JOB DESCRIPTION

Education and qualifications:

Required:

- BSc in Computer Science, Physics, Bioengineering, or related disciplines.
- Background on Image processing, analysis, statistics and machine learning.
- Methodical and organized person.

Preferred:

- High level of English.
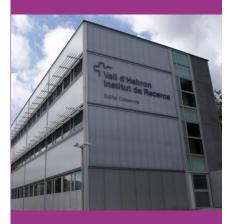
Experience and knowledge:

Required:

- Proven experience in image processing (PET, SPECT, CT or MRI images) and standard statistical methodologies is required.
- Experience in working with large and multimodal data sets is required.
- Development of computational models for quantification and prognosis would be positively considered.
- Experience in medical molecular imaging such as cardiac imaging, skeletal muscle or neuroimaging would be positively considered.
- Knowledge of radiomics and deep/machine learning techniques would be a plus.
- Database manipulation skills, with strong attention to detail.

Main responsibilities and duties:

- Processing, analysis and quantification of PET/CT images of different organs from clinical trials in Type 2 Diabetes.
- Development of computational models for prediction of comorbidities and inter-organ connexions.
- Writing technical reports, journal articles and presenting the work in scientific conferences.
- Interest in joining a non-profit organization with a mission of high social impact.
- Strong interpersonal skills (empathic and focused team-worker).
- Ability to think independently and work collaboratively.

Labour 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.
- Length of the contract: The research position is scheduled until the end of the project (expected February 2024). Possibility to continue after this contract joining other similar projects or doing the PhD thesis.

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 Programme (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.

How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference "Image Processing Data Position" to the following email addresses: raul.herance@vhir.org and seleccio@vhir.org

Deadline to apply: 14-06-2023