



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 in **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**).

VHIR embraces Equality and Diversity. As reflected in our values we work toward ensuring inclusion and equal opportunity in recruitment, hiring, training, and management for all staff within the organization, regardless of gender, civil status, family status, sexual orientation, nationality, religion, age, disability or race.

Master degree in biomedical engineering

Cardiovascular Diseases Research group

VHIR offers vacancy/vacant position for a candidate with a master degree in biomedical engineering within the Cardiovascular Diseases Research group

JOB DESCRIPTION

Education and qualifications:

Required:

- master degree in biomedical engineering with evaluation >8
- At least B2-level English certification

Desired:

- Fluency in Catalan, Spanish, English

Experience and knowledge:

Required:

- Blood-speckle tracking sequence
- Use and management of cardiovascular images in DICOM format
- experience in image registration
- experience in machine learning algorithms for cardiovascular imaging segmentation
- Biomedical engineering

Desired:

- Previous experience in research in a hospital
- Experience in Python and Matlab

Main responsibilities and duties:

- Refinement and application of codes for the semi-automatic mapping of PET uptake in the aorta



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- Refinement and application of codes for the semi-automatic quantification of blood speckle tracking in the aorta
- Use of previously-developed codes for the quantification of flow characteristics and biomechanics from CMR data

Labour conditions:

- Full-time position: 40h/week.
- Starting date: immediate.
- Gross annual salary: 22.823,22 euros
- Contract: temporary permanent 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.
- Personal training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (including dining checks, health insurance, transportation and more).

How to apply:

Applicants should submit a full Curriculum Vitae and a cover letter with the reference "ADAIR_technical" to the following email addresses: jfrodriquezpalomares@gmail.com and seleccio@vhir.org