



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

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PhD position in metabolic image processing for building AI algorithms and obtain biomarkers for personalized medicine

Medical Molecular Imaging Research Group (GRIMM)

JOB DESCRIPTION

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.

VHIR offers a job opportunity for a PhD student at the Medical Molecular Imaging Research Group. The PhD candidate will be involved in an exciting project aimed at developing new AI algorithms to automatize the analysis of images as well as to set biomarkers of pathology to use for diagnosis or prognosis in Type 2 Diabetes. This is a highly interdisciplinary research project that will allow the candidate to participate in a strong collaboration between GRIMM and the UPF University. In addition to her/his individual scientific project, the candidate will benefit from further continuing education, which will include appropriate training and access to transferable skills courses as well as active participation in workshops and conferences.



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Education and qualifications:

Required:

- Bachelor's and Master's degrees in any of these life science disciplines: Engineering, Physics, Biology, Chemistry, Pharmacy or similar
- Fluency in Spanish and/or English (professional level)
- Methodical, organized and with good teamwork skills

Desired:

- Familiarized with image processing
- Familiarized with PET, CT, ECO and RM images
- Familiarized with AI techniques (Deep learning and machine learning)
- Good academic and master thesis scores (at least 7.5 of average)
- Knowledge of statistical methodologies

Experience and knowledge:

Required:

- Skilled in image processing
- Experienced in statistical models



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Desired:

- Experience with building AI models
- Prior experience in PET image processing

Main responsibilities and duties:

- Analysis of several images from clinical and preclinical trials
- Building AI algorithms
- Dissemination of results at national/international conferences
- Writing up scientific manuscripts for publication

Labour conditions:

- Full-time position: 40h/week.
- Starting date: September 2024
- Gross annual salary: Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale
- Contract: Predoctoral

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.



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- Individual training opportunities.
- Flexible working hours.
- 23 days of holidays + 9 personal days.
- Flexible Remuneration Program (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 motivation letter with the reference "PhD_PET_VHIR" to the following email addresses: raul.herance@vhir.org and seleccio@vhir.org

Deadline to apply: 13-09-2024

The Fundació Hospital Universitari Vall d'Hebron-Institut de Recerca - "VHIR"-, with NIF G-60594009, address in Barcelona -08035- Passeig Vall d'Hebron 119-129, Edifici Mediterrània, 2a planta and telephone (34) 934 89 30 00 is the data controller for the processing of your personal data. The data will be processed exclusively for the purpose of managing your participation in the selection process, as well as, if necessary, managing your participation in other selection processes.

Unless you give your informed consent to keep your personal data for future selection processes, in the event that the selection process is completed and you are not the person selected, your personal data will be deleted and blocked in order to be able to respond to any possible liabilities that may arise.

The legal basis of the processing is the execution of a contract to which the data subject is party or in order to take steps at the request of the data subject prior to entering into a contract.

The recipient of the data will be the VHIR's Professional Development personnel and no transfer of personal data is foreseen, except for the fulfilment of legal obligations applicable to the data controller. International data transfers are not foreseen. No automated decisions will be taken, including profiling. In general, personal data will not be communicated to third parties, except for legal obligations in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 (GDPR) to persons who are entitled to request them. You have the rights of access, rectification, deletion, portability, limitation and opposition that can be exercised at any time through the email dpd@ticsalutsocial.cat or lopd@vhir.org. In compliance with Regulation (EU)



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2016/679, the VHIR has appointed a data protection officer, whose contact details are dpd@ticsalutsocial.cat. You can also lodge a complaint with the competent Data Protection Authority by contacting www.apdcat.cat or www.aepd.es.



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