



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.

Part-time Licensed Research Technician

Diagnostic Nanatools Research Group

Diagnostic Nanotools is a research group based at Vall d'Hebron Hospital (Barcelona, Spain). Our aim is to develop and validate biosensors, fast assays and novel detection strategies with diagnostic purposes (<http://www.vhir.org/gr/dina>; https://www.researchgate.net/profile/Eva_Baldrich).

WE ARE SEARCHING for a Part-Time Licensed Research Technician to join a project funded by Ministerio de Ciencia e Innovación (Convocatoria Proyectos de I+D+i Orientada a los Retos de la Sociedad). The candidate will participate in the production of point-of-care devices for detection of infectious diseases.

JOB DESCRIPTION

Education and qualifications required:

- Degree in Nanotechnology, Biochemistry, Chemistry, Biomedical Engineering or similar disciplines.
- Master finished.
- English competence (written and spoken).
- Hard-worker, dynamic and organized, technically skilled, with high autonomy level and multidisciplinary profile.

Experience and knowledge:

Candidates without experience in at least two of the following fields will not be evaluated.

- Experience in the optimization and performance of bioassays on magnetic particles (MP).
- Familiarity with different strategies of particle surface bioengineering.
- Basic understanding of electrochemical detection techniques.
- Paper microfluidics or production of paper-based diagnostic devices.

Main responsibilities and duties:



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- Our Group has produced a first prototype of paper-based microfluidic electrode, which was used to partially automate single-step MP-bioassays for malaria quantitative diagnosis (Biosens Bioelectron, 2020, 150:111925; <https://doi.org/10.1016/j.bios.2019.111925>). The candidate will participate in the production of an enhanced product, in collaboration with researchers of the Institut de Microelectrònica de Barcelona (IMB-CNM, CSIC), which will be applied to detection of respiratory infections. Work will include optimisation of single-step MP-immunoassays and implementation of electrochemical detection to produce fast and simple electrochemical MP-immunosensors.
- The candidate may also participate in the substitution of enzymatic labels by non-enzymatic nanotags, and/or the production of paper devices for sample pre-treatment.

Labour conditions:

- Part-time contract (32 h/week until December 2022)
- Gross salary of 18.258,58 €/year.
- Immediate incorporation.

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).



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How to apply:

Applicants should submit a full Curriculum Vitae, a cover letter with the reference DINA-RETOS-Lic, and the contact data of two references to the following email addresses before April 15th 2022: eva.baldrich@vhir.org and seleccio@vhir.org.