



Licensed Research Technician

Diagnostic Nanotools Research Group

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.

Diagnostic Nanotools is a research group based at Vall d'Hebron Hospital (Barcelona, Spain). Our aim is to develop and validate novel detection strategies with diagnostic purposes <https://vhir.vallhebron.com/es/investigacion/diagnostic-nanotools-dina>; https://www.researchgate.net/profile/Eva_Baldrich).

WE ARE SEARCHING for a **Part-Time Licensed Research Technician** to join a project funded by the Spanish 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 fast assays and an electrochemical platform for the diagnosis of respiratory infections**.

JOB DESCRIPTION

Education and qualifications:

Required:

- Degree in Biology, Biochemistry, Chemistry, Nanotechnology, 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 with experience in at least two of the following fields will be prioritized.

- 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.



HR EXCELLENCE IN RESEARCH

In April 2015, the **Vall d'Hebron Research Institute (VHIR)** obtained the recognition of the European Commission **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, religion, age, disability or race.



- Experience in the reference techniques for the diagnosis of infectious diseases.
- Experience in the optimization and validation of diagnostic assays.

Main responsibilities and duties:

- Our Group has produced a low-cost technology for malaria quantitative point-of-care diagnosis (*Biosens Bioelectron*, 2020, 150:111925, <https://doi.org/10.1016/j.bios.2019.111925>; *Biosensors and Bioelectronics*, 2022, 215:114513, <https://doi.org/10.1016/j.bios.2022.114513>). The candidate will participate in the production of an enhanced product, in collaboration with researchers of the Spanish National Centre of Microelectronics (IMB-CNM, CSIC), which will be applied to detection of respiratory infections. Work will include optimisation of single-step magnetic bead-based immunoassays, development of paper devices for assay easy handling, and implementation of electrochemical detection to produce fast and simple electrochemical immunosensors. Work will also include validation in real samples.

Labour conditions:

- Part-time position: 30h/week.
- Starting date: immediate.
- Gross annual salary: 17.200,00 euros /// (Remuneration will depend on experience and skills. Salary ranges are consistent with our Collective Agreement pay scale)
- Contract: *permanent linked to project*

What can we offer?

- Small multidisciplinary Team in a dynamic environment and a clinical setting.
- Personal training opportunities.

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- 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 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 cover letter with the reference "DINA-RETOS-Lic" to the following email addresses: eva.baldrich@vhir.org and seleccio@vhir.org

Deadline to apply: 19-11-2023