



# Laboratory Technician – Development of malaria point-of-care testing device

## 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.



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.**

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](https://www.researchgate.net/profile/Eva_Baldrich) .

WE ARE SEARCHING for a Full-Time Laboratory Technician to join a Caixa Research Health project funded by La Caixa Foundation. The candidate will participate in the development of fast assays and electrochemical biosensors for malaria point-of-care testing.

### JOB DESCRIPTION

#### Education and qualifications:

- FP2 or similar academic qualification, with more than 5 years of real experience in the laboratory.
- Publications as a co-author and previous stages abroad will be a plus.
- Spanish competence. English competence (written and spoken) will be a plus.
- Dynamic and organized, technically skilled, with high autonomy level and multidisciplinary profile.
- Interest in applied research and technology transfer.

#### Experience and knowledge:

Candidates with experience in at least two of the following fields will be prioritized.

- Experience in the optimization and performance of particle-based bioassays.
- Familiarity with different strategies for chemical modification of particle surface with biomolecules.
- Basic understanding of electrochemical detection techniques.
- Experience in reference diagnostic techniques (ELISA, PCR, rapid tests, etc.).
- Experience in the optimization and validation of bioassays.



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## 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>; *Biosens Bioelectron*, 2022, 215:114513, <https://doi.org/10.1016/j.bios.2022.114513>; *Biosens Bioelectron*, 2024, 246:115875, <https://doi.org/10.1016/j.bios.2023.115875>). 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) and Institute for Bioengineering of Catalonia (IBEC). Work will include optimisation of single-step magnetic bead bioassays, implementation of synthetic receptors (aptamers) and tags (enzyme mimetic nanoparticles), development of paper devices for assay easy handling, and implementation of electrochemical detection to produce fast and simple electrochemical biosensors. Work will also include validation in real samples.

## Labour conditions:

- Full-time position: 40h/week until 31st December 2026
- Starting date: immediate
- Gross annual salary: 19.000,00 – 21.600,00 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?

- 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.



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- 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 "DINA-CaixaHealth-Tec" to the following email addresses: [eva.baldrich@vhir.org](mailto:eva.baldrich@vhir.org) and [seleccio@vhir.org](mailto:seleccio@vhir.org)

### Deadline to apply: 05-01-2024

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](mailto:dpd@ticsalutsocial.cat) or [lopd@vhir.org](mailto:lopd@vhir.org). In compliance with Regulation (EU) 2016/679, the VHIR has appointed a data protection officer, whose contact details are [dpd@ticsalutsocial.cat](mailto:dpd@ticsalutsocial.cat). You can also lodge a complaint with the competent Data Protection Authority by contacting [www.apdcat.cat](http://www.apdcat.cat) or [www.aepd.es](http://www.aepd.es).