

PhD Candidate

Electrochemical point-of-care device for decentralized infectious disease diagnosis

We offer a three-year contract to pursue a PhD title in the framework of a project focused on the development of compact analytical tools that allowed the multiplexed rapid detection of disease-related biomarkers in low-resource settings. The aim is to provide a diagnostic platform integrating paper microfluidics and electrochemical transduction, to be very easy to produce and use that could be fully deployable in field. The project includes research activities in electrochemical sensors, microfluidics, microfabrication, biochemistry and analytical chemistry.

Requirements/Background and skills

We seek highly motivated candidates with a MSc degree in Chemistry, Materials Science, Engineering, Biochemistry or similar, and a clear focus on carrying out a PhD on the topic of this contract.

Excellent communication skills in English are a valuable asset.

Previous experience on the topics of this contract will be positively considered but are not essential.

Description of Group/Project

The selected candidate will join the Chemical Transducers Group (gtq.imb-cnm.csic.es/en) at the Barcelona Institute for Microelectronics (www.imb-cnm.csic.es/en), and will work in a multidisciplinary and dynamic environment. IMB-CNM facilities includes cutting-edge technology for device fabrication and characterization.

Summary of conditions

- Predoctoral contract at CSIC
- Great opportunity to work on a coordinated multidisciplinary project including professionals from the technological, biological and healthcare sectors.
- Conference attendance and short stays for device implementation are foreseen.

How to apply

All applications must be sent to cesar.fernandez@csic.es. Applications must include: CV and a motivation letter. Reference letters will be appreciated.

Deadline for applications 31st December, 2023

Expected start date 1st February, 2024

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- This offer can be found on: <https://www.imb-cnm.csic.es/en/about-center/careers/open-positions>
- More information on IMB-CNM: <https://www.imb-cnm.csic.es/en/>

