

PhD Candidate

Development of new approaches for the automated monitoring of protein biomarkers in culture media

We offer a three-year contract to pursue a PhD title in the framework of an EU project focused on the implementation of microfluidic architectures and detection protocols that enabled the highly sensitive and multiplexed monitoring of biomarkers in culture media.

This project includes research activities in microfabrication, microfluidics, electronics, and optical/electrochemical measurements, and will also involve working with biochemistry and analytical chemistry procedures.

Requirements/Background and skills

We seek highly motivated candidates with a MSc degree in Engineering, Chemistry, Materials Science, Biochemistry or similar, to work on a highly multidisciplinary and dynamic environment, and with a clear focus on pursuing a PhD title on this topic.

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). IMB-CNM facilities includes cutting-edge technology for device fabrication and characterization.

Summary of conditions

- Predoctoral contract at CSIC (24 k€ gross salary/year).
- Great opportunity to work on an EU 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 and antoni.baldi@imb-cnm.csic.es. Applications must include: CV and a motivation letter. Reference letters will be appreciated.

Deadline for applications 15th September, 2024

Expected start date Between 1st November and 1st December, 2024

- 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/>