

The mission of the Catalan Institute of Nanoscience and Nanotechnology (ICN2) is to achieve the highest level of scientific and technological excellence in Nanoscience and Nanotechnology. Its research lines focus on the newly-discovered physical and chemical properties that arise from the behavior of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for two consecutive periods (2014-2018 and 2018-2022). ICN2 comprises 19 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

Job Title: Research Assistant

Research area or group: Nanobioelectronics and Biosensors Group

Description of Group/Project:

The Nanobioelectronics and Biosensors Nanobioelectronics and Biosensors Group at ICN2 is focused on the discovery and technological development of cutting-edge nanotechnology towards diagnostics, food and safety and environmental applications. The group exploits phenomena that occur at the nanoscale in order to generate simple and novel biosensing platforms. They hold a wide expertise in cells, pathogens, DNA, proteins and small molecules detection using both optical and electrochemical approaches.

The main objective of Merkoçi group is to design nanotech devices that can be used even by non professional people for fast diagnostic at home or doctor's office, control of food quality, safety and security applications where either an emergency exists or an alternative method toward the sophisticated and expensive laboratory instrumentation is being required.

Main Tasks and responsibilities:

The researcher, in collaboration with other partners will be involved in electrochemical biosensor design, fabrication, functionalization and testing. The researcher will work with interdisciplinary researchers and engineers. Provide with a standardized method for production of electrochemical Lateral flow devices combined with electrophoresis with interest for diagnostics.

Requeriments:

- **Education**

Master on Materials Science, Chemistry, Biotechnology, or related disciplines

- **Knowledge and professional experience**

Demonstrable previous experience in electrochemical biosensors design, fabrication, functionalization and testing including strong theoretical and experimental skills in the field

High level in English

- **Competences**

Ability to work with deadlines, Ability to be creative, proactive in research ideas and activities, excellent communication skills and ability to work within a research group including collaboration with other international teams.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: Temporary (31 months)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: as soon as possible

Research assistant contract for 31 months in the framework of the project "Nano-Monitoring of Cancer Immunotherapy Efficiency: The Lateral Electrophoretic Bioassay platform (GLEBIOASSAY)" (AC21_2/00044).

How to apply:

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/383/research-assistant-nanobioelectronics-and-biosensors-group> and include the following:

1. A cover letter.
2. A full CV including contact details.
3. 2 Reference letters or referee contacts.

Applications will be continuously reviewed. Shortlisted candidates will be invited for interview.

Equal opportunities:

ICN2 is an equal opportunity employer committed to diversity and inclusion of people with disabilities.

ICN2 is following the procedure for contract of people with disabilities according with article 59 of the Royal Decree 1/2015, of 30 of October.