

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 behaviour of matter at the nanoscale. ICN2 has been awarded with the Severo Ochoa Center of Excellence distinction for three consecutive periods (2014-2018 and 2018-2022 and 2023-2026). ICN2 comprises 20 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

**Job Title:** Research support technician

**Research area or group:** NanoBiosensors and Bioanalytical Applications Group

**Description of Group/Project:** The NanoB2A group focuses on the development of novel nanobiosensor devices based on plasmonics, nanoplasmonics, and silicon-based photonics principles, including surface biofunctionalization, microfluidics for automatic fluid delivery and complete lab-on-a-chip integration for point-of-care devices. One of the Group's main objectives is to apply the nanobiosensor devices in real clinical diagnostics and environmental control. The Job is framed within a recent Horizon Europe granted project 101093166 entitled A Multiplexed Plasmic-Photonic Biosensing Platform For Rapid And Intelligent Sepsis Diagnosis At The Point-Of-Care (AMBROSIA). The job will be essentially related to implementing a novel photonic biosensor platform to be employed for the detection of sepsis biomarkers. If you are interested in joining a young, dynamic, and highly multidisciplinary team, with a highly innovative research project, this could be your opportunity.

**Main Tasks and responsibilities:**

The researcher will be involved in the optical characterization and biosensing evaluation of a novel plasmo-photonic biosensor with multiplexed capabilities, under development within the frame of a European Project. This includes tasks related to the optical assessment of the platform, the study of the photonic chips modification and biofunctionalization, the study of the integrated microfluidic components, and the full development of the biosensing application related to sepsis diagnostics

**Requirements:**

- **Education:** Degree in Physics, microelectronics, nanotechnology engineering or similar.
- **Knowledge:** Background in materials science, preferably with demonstrated experience in optical biosensor technologies. Knowledge and experimental experience with spectroscopy and microscopy characterization will be positively considered. Surface chemistry and surface skills will be highly considered.  
Excellent level of English (Fluent in writing and speaking) is required.
- **Personal Competences:** Highly motivated, enthusiastic, proactive and responsible. Good communication and organization skills.

**Summary of conditions:**

- Full time work (37,5h/week)
- Contract Length: 9 months/end of project

- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: September 2023

**How to apply:**

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/533/research-support-technician-nanobiosensors-and-bioanalytical-applications-group> and include the following:

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

Deadline for applications: 31/07/2023

**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.