

As a flagship research center in nanoscience and nanotechnology, our mission is to open and explore new frontiers of knowledge at the nanoscale, and bring value to society in the form of new understanding, capabilities and innovation, while inspiring and providing broad training to the next generations of researchers. Our values are Commitment, Collaboration and Transformation.

Our 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 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 technician - NanoBiosensors and Bioanalytical Applications Group

Research area or group: NanoBiosensors and Bioanalytical Applications

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 Plasm-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 design, optical characterization, and integration of the nanophotonic sensor platform under development within the frame of an European Project. This includes tasks related to the implementation of the optical setup and evaluation for detection, nanophotonic chip fabrication and characterization, microfluidics design and fabrication, and integration of required optical and electrical subsystems.

Requirements:

- Education: Degree in Physics or closely related areas.
- Knowledge or background in optics. Basic knowledge of laboratory experimental setups. Basic knowledge of biosensors will be highly valued. Excellent level of English (Fluent in writing and speaking) is required.
- Competences
 - o Highly motivated, enthusiastic, proactive and responsible. Good communication, presentation, and organization skills.
 - o Ability to work in multidisciplinary team.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: 13 months

- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.
- Work-Life Balance and Flexibility with flexible work schedules
- 28 holidays per year
- Flexible compensation plan: tax advantages contracting some products (health insurance, childcare, training, among others.)
- Training activities: languages, mentoring programme, wellbeing programme.
- International environment

Estimated Incorporation date: December 2025

How to apply:

All applications must be made via the ICN2 website 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: 23/10/2025



Funded by the
European Union

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.