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 18 Research Groups, 7 Technical Development and Support Units and Facilities, and 2 Research Platforms, covering different areas of nanoscience and nanotechnology.

Job Title: Postdoctoral Researcher

Research area or group: NanoBiosensors and Bioanalytical Applications Group

Description of Group/Project:

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. The application of the nanobiosensor devices in real clinical diagnostics and environmental control is one of the Group's main objectives. The Job is frame within a recent EU H2020 granted project aiming at the development of Advanced nanobiosensing platforms for POC lobal diagnostics and surveillance for combating SARS-CoV-2 disease

Main Tasks and responsibilities:

The postdoctoral researcher will be in charge of the assembly of a point-of-care prototype based on photonic biosensors already developed in the research group. This includes integration of multiplexed capabilities, microfludics, harware and software, together with the engineers of the team.

Education, Experience, Knowledge and Competences required:

- Education: Ph Degree degree in Physics (Optics), telecommunications, electrical or optical engineering.
- Professional Experience:
  Background in Optics, preferably with demonstrated experience in silicon photonics.
  Knowledge of simulation and modelling softwares (i.e. Lumerical, Comsol) and of LabView and Python will be preferred.
  Basic knowledge of microlfuidics will be positively considered.
  Experimental optical setup design and implementation will be highly considered.
  Excellent level of
  English (Fluent in writing and speaking) is required.
- Competences: Highly motivated, enthusiastic, proactive and responsible. Good communication and organization skills.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: 1 year (renewable)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: April 2020

How to apply:

All applications must be made via the ICN2 website https://jobs.icn2.cat/job-openings/217/postdoctoral-researcher-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: 31st March

Equal opportunities:

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