

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: Postdoctoral Researcher

Research area or group: Inorganic Nanoparticles Group

Description of Group/Project:

The main focus of the Inorganic Nanoparticles Group is the design and development of advanced functional inorganic nanoparticles with applicability in biomedicine, energy harvesting and catalysis.

We are looking for a candidate expert in cellular biology. We will value knowledge in transfection, work with mRNA and immune cells.

Main Tasks and responsibilities:

The researcher will be involved in all different aspects and stages of an EuroNanoMed III PROJECT (ERA-Net Action on Nanomedicine under Horizon 2020) entitled CONCORD: Cationic Gold nanoparticles mediated mRNA cytoplasmatic-targeted delivery for production of CAR-T lymphocytes for Chronic Lymphoid Leukemia immunotherapy. The position will be developed in close collaboration with the Vall de Hebron Institute of Research.

The functions of the job include:

- Testing new transfection vectors and the study of their interactions in biological environments.
- Evaluation of transfection efficiency of the NP-mRNA vector compared to standard vectors.
- Functional in vitro study of the transfected cells

Requirements:

- **Education**

PhD in biology, biotechnology or a related discipline.

- **Knowledge and Professional Experience:**

We are looking for experience in cell culture and transfection, cytometry and PCR (semi-quantitative and RT-PCR). However it is not mandatory and all candidates will be evaluated for their skills.

- **Competences:**

Strong commitment, demonstrated ability to work with deadlines, excellent communication skills and ability to work with professionals with complementary backgrounds.

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: Temporary (until February 2023)
- Location: Bellaterra (Barcelona)
- Salary will depend on qualifications and demonstrated experience.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: as soon as possible

How to apply:

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/336/postdoctoral-researcher-inorganic-nanoparticles-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.