

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 (MOF-based Composites)

Research area or group: Supramolecular Nanochemistry and Materials Group (NANOUP)

Description of Group/Project:

The Supramolecular NanoChemistry and Materials Group (NANOUP) is focused on controlling the supramolecular assembly of molecules, biomolecules and nanoscale building blocks at the nanometer scale for the design of novel functional architectures and devices.

The group is looking for a Postdoctoral Researcher to participate in the development of a European project (ERC Proof-of-Concept Grant) related to MOF-based delivery systems used as SAFE-ON Technology for Smart Antimicrobial Coatings (SAFE-ON).

Main Tasks and responsibilities:

- Synthesis of MOFs, inorganic nanoparticles and related composites.
- Adsorption studies of MOF-based composites.
- Delivery studies of MOF-based composites.
- Fabrication and study of antimicrobial coatings/films using MOF-based composites.
- Participation in writing scientific reports and papers, attending project meetings and scientific conferences, and in outreach activities within the project.
- Supervision of PhD students.

Requirements:

- **Education**

PhD Degree in Chemistry or Materials Science.

- **Knowledge and Professional Experience:**

Research experience in composites.

Research experience in metal-organic-frameworks (MOF)

Fluent in English

Summary of conditions:

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

Estimated Incorporation date: July 2022

How to apply:

All applications must be made via the ICN2 website <https://jobs.icn2.cat/job-openings/362/postdoctoral-researcher-supramolecular-nanochemistry-and-materials-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.