

ICN2 is a renowned research centre. Its research lines focus on the newly discovered physical and chemical properties that arise from the behaviour of matter at the nanoscale.

The Institute promotes collaboration among scientists from diverse backgrounds (physics, chemistry, biology, and engineering) to develop basic and applied research, while seeking out new ways to interact with local and global industry.

It also offers researchers training in nanotechnology, develops numerous activities to promote and enable the uptake of nanotechnology by industry, and promotes networking among scientists, engineers, technicians, business people, society, and policy makers.

ICN2 was accredited in 2014 as a Severo Ochoa Centre of Excellence and is a founding member of the Barcelona Institute of Science and Technology (BIST). The aim of the Severo Ochoa Program, sponsored by the Spanish Ministry of Economy, Industry and Competitiveness, are to identify and support those Spanish research centres that demonstrate scientific leadership and impact at global level.

Job Title: 2 PhD Students

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.

Funded by the EU Framework Programme H2020, the group is looking for two candidates to be employed as a PhD students for the study of the high performance MOF and IPOSS enhanced membrane systems as next generation CO₂ capture technologies.

Main Tasks and responsibilities:

During three years, the selected candidate will design, synthesize and characterize new porous, crystalline MOFs, control their miniaturization at the nanoscale and study them as advanced adsorbents for several applications, including CO₂ separation, gas adsorption, etc.

The candidate will acquire a great experience in supramolecular chemistry and nanotechnology (nanochemistry), as well as in the use of a wide range of characterization techniques. The candidate will develop her/his thesis in excellent scientific infrastructures, highly international atmosphere and will count with the expertise of NANOUP team.

Education, Experience, Knowledge and Competences required:

- **Education**
 - o Bachelor's degree in Chemistry, Nanochemistry or Materials Science
- **Knowledge**
 - o Having a Master in Chemistry, Materials Science or Nanotechnology will be highly regarded.

- **Professional Experience**
 - o No required
- **Competences**
 - o Fluent in English

Research Career Profile (According to the European Framework for Research Careers):

R1 First Stage Researcher

Summary of conditions:

- Full time work (37,5h/week)
- Contract Length: 3 years.
- Salary will depend on qualifications and demonstrated experience.
- Salary according to the cost of living in Barcelona.
- Support to the relocation issues.
- Life Insurance.

Estimated Incorporation date: 1st candidate on March 2018. 2n candidate on May 2018.

How to apply:

All applications must be made via the ICN2 website <http://jobs.icn2.cat/job-openings/126/2-phd-student-in-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.

Deadline for applications: January 21st

Equal opportunities:

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