

### **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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 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: May 2018.

### **How to apply:**

All applications must be made via the ICN2 website

<http://jobs.icn2.cat/job-openings/132/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: April 23rd

### **Equal opportunities:**

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