

## Junior Postdoc Position at the Functional Inorganic Materials team

### Job Description/ Why We're Hiring

We are looking for a leading profile who will oversee the aspects relevant to the use of molecular frameworks in the capture and transformation of CO<sub>2</sub>. The position will be initially funded by the Plan de Recuperación, Transformación y Resiliencia financed by the Next GenerationEU plan in the frame of the project 'Photoactive Titanium Reticular Catalysts for Energy' (MFA/2022/026).

For this, we are seeking a person willing to lead an innovative and ambitious R&D project, with enough passion, energy, and motivation to exploit the potential of the rich family of ultraporous materials produced by the group in this context. Full time position (37 hours/week). 1 year extendable.

### Requirements and Expertise:

- Applicants must have a PhD in Chemistry/Chemical Engineering or equivalent (not earlier than 2020) with proven research experience in the use of Metal-Organic Frameworks for CO<sub>2</sub> capture and/or valorization.
- Knowledge/experience of mixed-matrix membrane fabrication for gas capture.
- Good oral and written communication skills in English.

### Desirable:

- Familiarity with batch synthesis of MOFs.
- Experience with the use of molecular frameworks in catalysis.
- Experience in the use of MOFs in small molecule activation for electrocatalysis.
- Familiarity with spray-drying synthesis of MOFs.

### Abilities:

- Capability to supervise and manage co-workers and report writing.
- Ability to think and act strategically and proactively.
- Problem-solving aptitude.
- Perseverance, resilience, and high degree of self-motivation.

Applications should be **addressed to Carlos Martí-Gastaldo and Natalia Muñoz Padial** ([funimat@icmol.es](mailto:funimat@icmol.es)) and sent via email in a single PDF document. *This file should include your curriculum vitae, academic record and professional experience, and contact details or references (including Ph.D supervisor).* Applications will be considered as received until the **6<sup>th</sup> of October**. Shortlisted candidates will be interviewed in English remotely before appointment between November-December 2023.

Please note that because of the large number of applications expected we will not be able to give individual detailed feedback to unsuccessful applications. Your application will be treated confidentially.

