

Postdoc Position at the Functional Inorganic Materials team

Job Description/ Why We're Hiring

We are seeking a leading **Postdoc researcher** willing to lead an innovative and ambitious R&D project, focused on the potential of **Metal-Organic Frameworks to direct and control enzyme encapsulation**. The position is financed by the European Research Council in the frame of the **ERC CONSOLIDATOR GRANT ERC-2021-COG-101043428 LIVINGPORE**. **Full time position. 1 year, extendable to 3 years.**



Requirements and core scientific knowledge:

- Applicants must have a Ph.D. in Chemistry, Biochemistry, Material Sciences or equivalent
- Familiarity with enzyme immobilization techniques.
- Expertise in encapsulating biomolecules in porous materials.
- Understanding enzyme structure, function, and stability.

Experimental techniques:

- **Requirement:**
Biochemical analysis: Enzyme activity assays (kinetic and thermodynamic studies), Protein stability and conformational studies (circular dichroism, FTIR), and Mass spectrometry for biomolecule characterization
- **Desirable:**
Experimental techniques: Powder X-ray Diffraction, Scanning and Transmission Electron Microscopy, Scanning and Transmission Electron Microscopy, Thermogravimetric Analysis.
Advanced analytical tools: Spectroscopy (UV-Vis, Fluorescence, FTIR, Raman), Nuclear Magnetic Resonance (NMR) for structural insights.

Abilities:

- Capability to collaborate with other group members at all seniority levels and to prepare documents and reports.
- Clear visualization of complex data and concepts.
- Ability to think and act strategically and proactively.
- Problem-solving aptitude and adaptability.

Applications should be **addressed to Carlos Martí-Gastaldo** and sent via email to funimatapplications@gmail.com in a single PDF document. *This file should include your curriculum vitae, professional experience, and contact details from at least 2 references from previous position.* The applications will be considered as they are received until a candidate is selected. Shortlisted candidates will be interviewed in English remotely before appointment.

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.

