

Junior Postdoc Position Available at the Institute of Molecular Science

Job Description/ Why We're Hiring

We are looking for a leading profile who will oversee the computational aspects relevant to the implementation of a new research program for the Molecular Design of Biomaterials at the Institute of Molecular Science (ICMol) of the Universidad de Valencia. The position will be initially funded by the Ministerio de Ciencia, Innovación y Universidades in the frame of the María de Maeztu Units of Excellence (CEX2019-000919-M) and might be continued by the ERC Consolidator 2021 project LIVINGPORE.

For this, we are seeking a person willing to lead an innovative and ambitious R&D project, with enough passion, energy, and motivation to guide and support the experimental efforts of different groups.

Requirements and Expertise:

- Applicants must have a PhD in Chemistry/Physics or equivalent (not earlier than 2019) with proven research experience in computational modelling of porous solids, including in-silico design of topologies and simulation of adsorption properties by using classical Monte Carlo and Molecular Dynamics methodologies.
- Knowledge/experience of Molecular Mechanics Force Fields: classical molecular dynamic and Monte Carlos simulation methods.
- Good oral and written communication skills in English.

Desirable:

- Experience with common simulation packages (GULP, AMBER, GROMACS, NAMD...)
- Experience with building and implementation of force fields for the combined simulation of biomolecules (proteins) and porous molecular frameworks.
- Experience in high-performance computing.
- Programming skills (e.g. Fortran, C, Python).
- Experience as Linux operating system user.

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** (funimatapplications@gmail.com) 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 **15th of June**. 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.