

**Postdoctoral Researcher Position to work on
"Innovative MOF-based biocomposites to replace synthetic biocides"**

The group of Mónica Giménez-Marqués at the Institute of Molecular Science (ICMol) is taking applications for a Postdoctoral Research position. The position offers an opportunity to develop environment-friendly MOF-based biocomposites with biocidal activity, in the frame of a funded collaborative project by the Agencia Valenciana de la Innovación entitled:

"Research and development of a comprehensive biotechnological system for cleaning and disinfection of pathogens with application in food safety and clinical settings"

Job summary and tasks

The successful candidate will synthesize MOF-based biocomposites preferably using biocompatible and scalable protocols, characterize these using a variety of advanced techniques, assess toxicity, develop targeted release of the biocides from MOF-encapsulations and test biocidal activity. These bioactive materials will be immediately used by partners of a multidisciplinary collaborative project to substitute synthetic biocides in sanitizing products, both for industrial applications and in private households.

Experience gained will be relevant to careers in both academia and industry. Trainees will receive regular guidance to ensure progress is made toward their career goals. Trainees are also afforded the scheduling flexibility needed to maintain an appropriate work life balance.

Requirements

We are looking for motivated candidates with PhD in Chemistry, Materials Science or equivalent. The applicant is expected to demonstrate leading capabilities to supervise PhD, MSc or undergraduate students. Preferred qualifications include proficiency in the synthesis and characterization of porous inorganic materials, and experience with biocomposites is desirable.

Special Instructions

Expected Starting Date: January 2022.

Duration of the contract: Initial appointment for 12 months. Additional 12-month extension will be available based on performance and mutual agreement.

Workplace: Institute of Molecular Science (ICMol) at the Universidad de Valencia (www.icmol.es).

Documents: Interested candidates should send an email to candidature.gimenez.marques@gmail.com including a motivation letter, CV and 1 reference letter. For best consideration, please apply before 30/09/2021. A final stage with online interviews will be scheduled for beginning of October. Final decisions will be personally communicated by e-mail to all candidates.