

**PhD student position: SYNTHESIS AND CHARACTERIZATION OF NANOHYBRIDS AND NANOHETEROSTRUCTURES.****Institution: Institute of Molecular Science (ICMol), University of Valencia, Spain.****Group:** (Photo)Chemistry Reactivity Group (PRG)

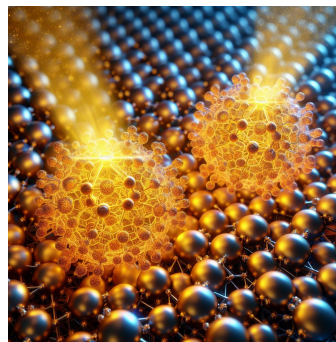
The [Institute of Molecular Science \(ICMol\)](#) is a multidisciplinary research institute in Spain, involving chemistry, physics, material science and nanotechnology, recognized by the Spanish Research Agency as a Maria de Maeztu Unit of Excellence. The group of **(Photo)Chemistry Reactivity Group (PRG)** is one of the multidisciplinary research groups based at ICMol led by *Prof. Julia Perez Prieto (Full Professor Organic Chemistry (Department of Organic Chemistry) and coordinator of the [Doctoral Programme in Sustainable Chemistry](#))*. This group aims to develop research in materials science and photoactive nanosystems, using advanced optical spectroscopy for the photophysical and photochemical characterization of molecular and supramolecular (nano)materials.

We are looking for a Ph.D. candidate to join PRG group working on the the project entitled Selectively matching nanohybrids for light-driven applications. Programa Prometeu per a grups d'investigació d'Excel·lència de la Conselleria d'Innovació, Universitats, Ciència i Societat Digital (Actualmente: Conselleria d'Educació, Cultura, Universitats i Ocupació (CIPROM/2022/057).

The successful candidate will have the opportunity to work in a dynamic and international environment at ICMol, learn about photoactive nanomaterials and their interaction with different sources of light and the photoinduced process involved. See for example [Chem. Mater.](#) **2024**, *36*, *9*, 4426.

**Project summary:** we aim to design **nanohybrids and nanoheterostructures**. We will *combine photoactive organic-inorganic materials and characterize their structure and photophysical features by using state-of-the-art optical spectroscopies techniques* available at PRG group.

**Positions requirements** – Bachelor's degree in Chemistry or equivalent. Admission to a PhD programme at the University of Valencia at the time of hiring. Preferred merits: Master's degree in Sustainable Chemistry or equivalent; English: B1 level certificate, or equivalent qualification. Experience in: Synthesis of organic ligands; Preparation of photoactive materials; Characterization of photoactive materials.

**Application Deadline:** 17 of December 2024.**Application Process:** [link](#)Interested candidates should submit the documents indicated in the [link](#).

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