PhD Research Contract

Supramolecular Materials for Biomedical Applications

We are looking for motivated scientists to work in the interdisciplinary ***Nanostructured Molecular Systems and Materials*** group (***MSMn***) at the *Institute for Advanced Research in Chemical Sciences* (*IAdChem*) in the **Universidad Autónoma de Madrid**.

	PhD Position
Application Deadline	31/01/2025
Expected Starting Date	> 01/02/2025 (relatively flexible)
Duration	2 + 2 years
Main background	**- Organic Chemistry**
Additional experience (not required, but positively considered)	- Supramolecular Chemistry - Molecular Materials
Requisites	- Master studies finished or in course - Excellent Grades in Bachelor (and Master) studies - Good English level - *Motivation!*
Research Focus	*Noncovalent Synthesis* aims at the production of well-defined nanostructures, often mimicking those found in the natural world, and relies both on noncovalent interactions and cooperative effects between chemically programmed molecules. One of the most appealing noncovalent synthetic targets are *Self-Assembled Nanotubes*, due to their nanoscale dimensions, with inner cavities in the attoliter regime, their large variety of biological functions, illustrated by tube-forming proteins like tubulin or gramicidin, and their potential applications in biomedicine and molecular encapsulation, transport, or catalysis.
Funding Project	*Functional Self-Assembled Systems: from Discrete Structures to Polymeric Networks (SupraFun)*
WebPage (additional info)	*https://msmnlab.wixsite.com/dgrlab*

Applications should be submitted to: david.gonzalez.rodriguez@uam.es including:

- **CV** with Bachelor/Master Grades, publications list and contact details
- **Optional**: motivation letter, research summary, recommendation letters, etc.