

# PhD Research Contract

## Supramolecular Systems for Emerging Optoelectronic Materials

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Application Deadline                                               | 15/11/2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Expected Starting Date                                             | > 01/01/2027<br>(relatively flexible)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Duration                                                           | 1 + 3 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Main background                                                    | - Organic Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Additional experience<br>(not required, but positively considered) | - Supramolecular Chemistry<br>- Molecular Materials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Requisites                                                         | - Master studies finished or in course<br>- Excellent Grades in Bachelor (and Master) studies<br>- Good English level<br>- Bachelor and Master overall marks above 8.0<br>- <i>Motivation!</i>                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Research Focus                                                     | <p>By combining organic synthesis of <math>\pi</math>-functional molecules with precise supramolecular self-assembly, and in collaboration with expert groups, we aim to establish a new paradigm in organic materials based on the cooperative combination of multiple physical properties (ferroelectricity, magnetism, luminescence, photoconductivity, etc.) within hierarchically ordered polar supramolecular architectures.</p> <p>Research will be carried out partly at the <i>Universidad Autónoma de Madrid</i> (David Gonzalez-Rodriguez) and partly at the <i>Universidad de Cantabria</i> (Miguel Garcia-Iglesias)</p> |
| Funding Project                                                    | <i>Novel Supramolecular Polar Architectures Cooperatively Combining Multiple Physical Properties (PolarCom)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| WebPage<br>(additional info)                                       | <a href="https://msmnlab.wixsite.com/dgrlab">https://msmnlab.wixsite.com/dgrlab</a><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Applications should be submitted to: [david.gonzalez.rodriquez@uam.es](mailto:david.gonzalez.rodriquez@uam.es) including:

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