

## PHD POSITION

### Job description

A PhD position is available in the group **Nanoarchitectonics on Surfaces**, led by Prof. David Écija, at IMDEA Nanociencia. The group is dedicated to the design, characterization and understanding of quantum organic, metal-organic and inorganic materials. To this aim, it counts with an excellent research infrastructure comprising three state-of-the-art ultra-high vacuum (UHV) systems.

The selected candidate is expected to mainly conduct research in the field of on-surface synthesis of functional inorganic (oxides) and organic materials (molecules, polymers and two-dimensional networks), for applications in sensing and catalysis, using scanning probe techniques (STM, STS and nc-AFM). He/she will also have the opportunity to work within an excellent interdisciplinary team, being supervised by Dr. Ana Barragán and Prof. David Écija, and benefiting from the environment of the ERC Synergy Magnesis.

### Requirements:

Applicants must hold a Master's degree in Physics, Chemistry, Material Science, or a related field at the beginning of the contract. A preliminary background in scanning probe techniques under ultra-high vacuum (UHV) conditions is desirable. We are seeking outstanding candidates who demonstrate initiative and strong teamwork skills. Proficiency in both written and spoken English is mandatory.

### Working conditions:

- Starting date: September 2026.
- Full-time employment contract (37.5H per week).
- 4-years contract.
- Work-life balance measures: IMDEA Nanociencia has implemented a Gender Equality Plan that includes work-life balance measures, such as flexible schedule, teleworking, and meeting that respect the working hours.

**Workplace:** Fundación IMDEA Nanociencia, C/Faraday 9, Madrid 28049

**Application submission:** Applications must be submitted via e-mail to [ana.barragan@imdea.org](mailto:ana.barragan@imdea.org) or [david.ecija@imdea.org](mailto:david.ecija@imdea.org).

