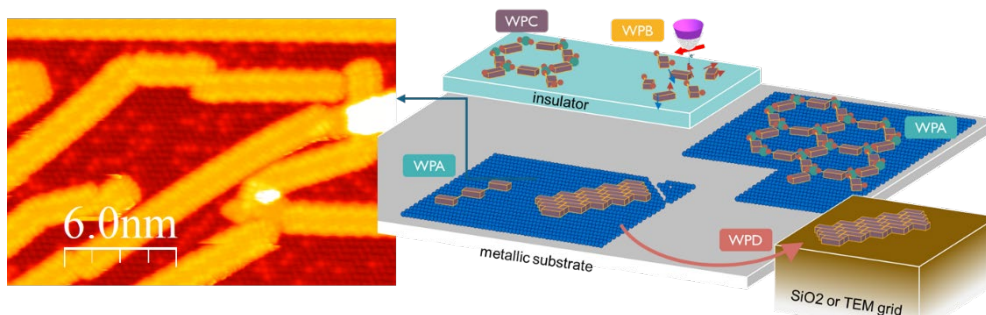


OPEN PhD POSITION

We seek **highly motivated students** holding a degree in **Physics /Chemistry** to fill a PhD position focused towards **Surface Science and Materials Science**.

PhD project: 'EMERGENT QUANTUM PHENOMENA IN 2D-ORGANIC SYSTEMS'

The general objective consists in demonstrating the quantum efficiency of **Organic Nano-Architectures (ONA)** on **2D insulating substrates** and their enhancement compared to their metal-hybridized case. The PhD student will develop methods that **improve quantum coherence of ONAs** with control at the atomic scale giving rise to true quantum behaviour in molecular systems. The preparation and characterization to be employed are scanning microscopies and photoemission spectroscopies in a UHV environment. The **host group** combines **world-class surface science methods** (available at [Laboratorio de Microscopias Avanzadas](#)) with large experience at synchrotron facilities. INMA is located in **Zaragoza** (population 800,000) a lively University city with flight and train connections to all major destinations.



Requirements: You should hold a Master's degree (or equivalent) in Physics, Materials Science, Nanotechnology, or a related field. Excellent written and verbal communication skills in English. We greatly appreciate previous experience with **UHV** techniques, scanning probe methods (**STM-AFM**), electron microscopy (**TEM**), **low-temperature** setups, and **scientific software** packages (e.g. Python, Origin, Igor, etcetera). Good team player and a vocation for science are critical.

Contract details: **4 years contract** under Predoctoral Personnel programme (associated to AEI PID2025 projects, former FPI contracts). **Gross salary** of approximately **31 k€/year**.

Applications: Contact the project PIs below with your CV, cover letter and transcripts of your Bachelor and Master degrees. *Estimated* official call opening in September-October 2026. Starting date around first half 2027, to be agreed.

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