

Marie Skłodowska-Curie Actions (MSCA) European Fellowships

Applications are invited for a postdoctoral research position in experimental physics to study *Atomically precise graphene nanostructures*. This project aims at exploring emerging functionalities in novel 2D graphene-based nanostructures. The on-surface synthesis method our group recently demonstrated ([C. Moreno et al., Science 360, 199 \(2018\)](#)) will be employed to synthesize nanoporous graphene of different pore size and geometry, and chemical composition. The study will be extended to hybrid lateral heterostructures combining graphene nanostructures with covalent molecular structures of different functionalities.

The candidate will synthesize the graphene nanomaterials in ultra-high vacuum conditions and characterize them by combining scanning tunnelling microscopy and spectroscopy (STM/STS), and X-ray photoelectron spectroscopy (XPS). The optical and transport properties will be tested in three-terminal devices that will be fabricated by transferring the nanomaterials onto dielectric substrates.

Solid background in surface science and low dimensional electronic phenomena, and experience in one or more of the above-mentioned techniques is required. Candidates must also possess good command of oral and written English. Interested candidates will be requested to apply to a Marie Skłodowska-Curie Actions European Fellowship (MSCA-EF). This Fellowship funds a 2 year position with a competitive salary.

Interested applicants may request further information and send their CV and a brief statement of interests to Prof. Aitor Mugarza at the e-mail addresses given below.

Contact info:

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