



## 18-months Postdoc

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<b>Project:</b>	<b>“Advanced transmission electron microscopy studies of 2D-materials”</b>
<b>Location:</b>	<b>Instituto de Nanociencia de Aragon (INA), Universidad de Zaragoza, Zaragoza (Spain)</b>
<b>Contact:</b>	<b>Raul ARENAL (arenal@unizar.es)</b>

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We are seeking for a highly motivated postdoctoral candidate. The candidate will explore the atomic structure and configuration of graphene-based and related (including hybrid) 2D nanomaterials. The optoelectronic properties of such materials will be also investigated. Those studies will be developed using advanced transmission electron microscopes (TEM) microscopes and different TEM techniques: atomic resolution HR(S)TEM, EELS and electron tomography.

The Institute of Nanoscience of Aragon (INA), founded in 2003, is an interdisciplinary research institute at the U. of Zaragoza and is devoted to R+D in Nanoscience and Nanotechnology. INA hosts the Laboratory of Advanced Microscopies (LMA), a Spanish National Facility, which represents a unique initiative, both national and internationally to gather the most advanced existing equipment and infrastructures in local probe and electron microscopy. The LMA-INA hosts a large number of laboratories dedicated to materials synthesis and characterization, including XRD, XPS, Auger and Raman spectroscopy, AFM, MFM, STM, macroscopic characterization (magnetization, transport), 4 TEM (including 2 aberration-corrected TEMs, one monochromated), 3 FIB (including Cryo-FIB) and SEM.

Candidates should hold a PhD in Physics, Chemistry, Materials Science or other related areas. Previous experience in TEM (HR(S)TEM, EELS, tomography) is required and a background in carbon-based nanostructures, as well as a knowledge in XPS would be appreciated.

The duration of the position is 18 months.

Interested candidates should send a CV (including a list of publications), a letter of motivation and the names of 2-3 references to [arenal@unizar.es](mailto:arenal@unizar.es)

Please, send the applications not later than **March 16<sup>th</sup>**.