



Enabling Science and Technology through European Electron Microscopy, ESTEEM 3 (H2020 GA No. 823717).

- ORGANISATION / COMPANY: UNIVERSIDAD DE ZARAGOZA, INSTITUTE OF NANOSCIENCE AND MATERIALS OF ARAGON (INMA), <http://inma.unizar-csic.es/>
- RESEARCH FIELD: transmission electron microscopy, TEM
- RESEARCHER PROFILE: experienced post-doc
- DEADLINE (CV preselection): Oct. 31th 2021.
- LOCATION: Spain › Zaragoza
- TYPE OF CONTRACT: temporary (1 year, renewable; total max. duration: 15 months)
- JOB STATUS: full-time
- HOURS PER WEEK: 37.5
- EU RESEARCH FRAMEWORK PROGRAMME H2020 / ERC.
- REFERENCE NUMBER: 823717
- <https://www.esteem3.eu>, <https://cordis.europa.eu/project/id/823717>.

Main duties:

- Characterization of nanostructured materials by techniques of image-corrected High-Resolution Transmission Electron Microscopy (HRTEM) and probe-corrected Scanning Transmission Electron Microscopy (STEM).
- Atomic resolution chemical characterization of nanostructures by means of EELS and EDS spectroscopies.
- Magnetic characterization of ferromagnetic nanostructures by means of Electron Holography.
- Experiment design, data analysis, (S)TEM image simulations, elaboration of periodic scientific reports and presentations.
- Writing of scientific papers for international journals, scientific contributions to conferences.

Offer requirements

REQUIRED EDUCATION LEVEL:

Doctorate in Physics, Chemistry, Materials Science or Nanoscience.

Skills/Qualifications

Expertise on Advanced Transmission Electron Microscopy.

Specific requirements: research experience on:

- Study of physical properties of functional nanostructures (magnetism, ferroelectricity, electrical transport, superconductivity).
- Characterization of nanostructures by aberration corrected TEM techniques and Electron Holography.
- In situ transmission electron microscopy.
- Sample preparation techniques for transmission electron microscopy.

How to apply for pre-selection:

Contact persons: Prof. M. Ricardo Ibarra (ibarra@unizar.es) and Dr César Magén (cmagend@unizar.es).

Official call, pending (the pre-selected candidates will have further information about how to officially apply).