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

- RESEARCH FIELD: electron microscopy, XRD, TEM
- RESEARCHER PROFILE: Senior Researcher
- APPLICATION DEADLINE (pre-selection): June 30th.
- LOCATION: Spain › Zaragoza
- TYPE OF CONTRACT: temporary (1 year, renewable; total max. duration: 2 years)
- JOB STATUS: full-time
- HOURS PER WEEK: 37.5
- EU RESEARCH FRAMEWORK PROGRAMME H2020 / ERC.
- REFERENCE NUMBER: 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 such materials by means of EELS and EDS spectrometries with high energy resolution.
- Magnetic characterization of ferromagnetic nanostructures by means of electronic holography.
- Experiment design, data analysis, 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 or Materials Science.

Skills/Qualifications
Expertise on Advanced Transmission Electron Microscopy.

Specific requirements: research experience on:
- Study of physical properties of nanostructured oxides (magnetism, ferroelectricity, electrical transport, superconductivity) and/or ferromagnetic nanomaterials.
- Characterization of nanostructured oxides and ferromagnetic nanomaterials by aberration corrected TEM techniques and electron holography.
- In situ transmission electronic microscopy.
- Sample preparation techniques for transmission electronic microscopy.

How to apply:
Pre-selection of CVs’ deadline: June 30th 2020.
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).