

**Postdoc Position in Advanced (S)TEM characterization (2.5 years)**

We are seeking for a highly motivated postdoctoral candidate. The candidate will explore the structure and local chemistry of materials related to the production and storage of hydrogen such as stainless steels. Different TEM techniques will be used including high-resolution (S)TEM, EDS, EELS, aberration-corrected microscopy as well as FIB/SEM.

Facilities to develop the project at University of Cádiz include state-of-the-art microscopes such as (i) a FEI Titan3 Themis (60-300 kV) fitted with a monochromator, a Cs Double corrector, (ii) a K3 Direct Camera, a high-resolution EELS spectrometer and a Super-X windowless EDX detectors, (iii) a last generation non-corrected TEM/STEM FEI Talos F200X fitted with Super X EDX and EELS spectrometer, (iv) a focus ion beam (FIB) microscope SCIOS and (v) last generation of in-situ sample holder under controlled atmosphere DENS climate. A wide variety of equipment for TEM sample preparation as well as software packages for data processing and simulation are also available.

Candidates should hold a PhD in Physics, Chemistry, Materials Science or other related areas. Previous experience in TEM (HR(S)TEM, EELS, tomography). Knowledge in SEM and FIB would be appreciated.

The contract is until 30/09/2025

Interested candidates should send a CV (including a list of publications), a letter of motivation and the names of 2- 3 references to [luc.lajaunie@uca.es](mailto:luc.lajaunie@uca.es) not later than February 9th.