



Centre d'Elaboration de Matériaux et d'Etudes Structurales
BP 4347, F-31055 Toulouse Cedex 4

Two postdoctoral positions in advanced electron microscopy at CEMES

Description

The CEMES laboratory in Toulouse is looking for two post-doctoral scientists to join their electron microscopy team. We are currently working on several aspects of transmission electron microscopy: in-situ experiments (applied fields), electron holography, data analysis, new instrumentation and computer-controlled microscopy.

Developments will particularly concern our unique instrument designed for in-situ interferometry, the I2TEM microscope: Hitachi HF-3300 TEM equipped with a cold-field emission gun (C-FEG) operating at 300kV, two specimen stages (standard stage within the pole-piece gap of the objective lens and upper-stage placed above the objective lens for field-free imaging), an image corrector (CEOS B-COR for correcting off-axial aberrations) and four biprisms (three post-specimen and one in the condenser lens system). The microscope is also equipped with a GIF (Quantum) and high-speed pre-GIF 4K CCD detector (Gatan OneView). <https://sites.google.com/site/equipexmimetis/>

The CEMES coordinates the European Infrastructure for Electron Microscopy (ESTEEM2) and is founding member of the French Microscopy Network (METSNA).

Requirements

- PhD in electron microscopy
- Experimental or computer analysis expertise
- Modelling skills such as finite-element method a plus
- Working language: English or French

Job conditions

Starting salary: 2500 €/month gross as a function of experience

Starting date: from June 2017 onwards

Contact:

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