Postdoctoral position at CRM2 – University of Lorraine (Nancy, France)

Structure of functional materials in non-ambient conditions

In the framework of the development of barocaloric refrigerators (collaborative European project EIC Pathfinder with 7 partners from 4 different countries https://frostbitproject.eu), we are looking for a postdoctoral researcher to join us at CRM2[1] at the Université de Lorraine, France. This is a full-time position focusing on the measurement of phase diagrams (T, P) of spin crossover (SCO) compounds using X-ray diffraction (XRD) and diffusion techniques.

The work will be carried out under the supervision of Dr. Maxime Deutsch and Dr. Dominik Schaniel. At CRM2, our research focuses on exploring materials under non-ambient conditions—combining pressure, temperature—with advanced characterization techniques including XRD and complementary spectroscopic techniques.

Candidate profile

Applicants should have a solid background in physics. Extensive experience with X-ray diffraction techniques is required. Familiarity with high-pressure techniques (in particular using Diamond Anvil cells) or phase transitions and thermodynamics will be considered a strong asset.

Keywords: Barocaloric effect, X-ray diffraction, pressure, phase diagram

Post-Doc duration: 18 months

Salary (gross): of the order of 2600-3000 Euros per month, depending on the researcher's experience

Application procedure
Interested candidates are invited to submit the following materials:

- A complete CV, including a list of publications
- A motivation letter
- Contact information for references (or letters of recommendation)

Applications should be sent to both:
maxime.deutsch@univ-lorraine.fr and dominik.schaniel@univ-lorraine.fr

Deadline for the application: Applications will be considered until the position is filled. Interviews will start on early April 2026.

Starting date of the contract: as soon as a suitable candidate is found.

[1] Laboratoire de Cristallographie, Resonance magnétique et modélisation, UMR UL-CNRS 7036, Nancy, France ; https://crm2.univ-lorraine.fr/