

The [Earth and Planetary Materials group the Unité Matériaux et Transformations](#), at the [Université de Lille](#), France, invites applications for a position as

**Post-Doctoral Fellow
from the fall of 2020 or early 2021**

The fixed-term position is available for 1 year and paid according to French standards for post-doctoral fellowships, including all associated social benefits.

The post-doctoral fellow will be involved in experiments performed at the [HED instrument](#) at the [European XFEL](#) with the SEM/TEM analysis of the run products. The work will involve processing of x-ray diffraction images on phase transformations in minerals obtained at pico-seconds timescales in diamond anvil cells as well as SEM and TEM analysis of the recovered samples.

The post-doctoral fellow will be funded by grant of the [I-SITE Université de Lille Nord Europe](#) to Sébastien Merkel.

Prerequisites:

We seek a highly motivated individual with keen interest in high pressure experiments at large-scale facilities, x-ray diffraction study of phase transitions in minerals, and electron microscopy.

The ability to work independently is essential to the project. The candidates should have a strong background in diamond anvil cell high pressure experiments, powder x-ray diffraction and electron microscopy.

Applicants should hold a PhD degree or equivalent in Earth Sciences, Physics, Materials Science, or a related field at the time of the appointment.

Applications:

Candidates should submit, in a single pdf file, a short statement of research experience and interests, a CV including a list of scientific productions, and the names and contact information of two or three potential referees to Prof. Dr. Sébastien Merkel (sebastien.merkel@univ-lille.fr). Review of applications will start **by May 31st 2020** and will continue until the position is filled.

The position is fully based in Lille, France, and expected to start in the fall of 2020 or early 2021.

Please contact Prof. Dr. Sébastien Merkel for additional information concerning the project.