

# UNIVERSITE CLAUDE BERNARD - LYON 1



## LABORATOIRE DE GEOLOGIE DE LYON

### Postdoctoral Research Fellow in Petrology-Geochemistry @UCB-Lyon1

#### Context :

This postdoctoral position is funded by the ANR project DHYAM, led by Muriel Andreani from the University of Lyon 1 (France), and involving scientists from the Ecole Normale Supérieure de Paris (ENSP) and the Institut Physique du Globe de Paris (IPGP). This large project, running over the next 3 years, aims at unravelling the tectonic, magmatic and hydrothermal processes that control the formation, evolution and geochemical impact of oceanic core complex (OCC) at slow-spreading ridges. The project notably relies on the set of geophysical and geological data collected during a recent oceanographic cruise (2022) and two older ones at the Rainbow Massif (36°N, Mid-Atlantic Ridge). DHYAM also includes the development of original pedagogic and outreach activities.

#### Position :

We are seeking a highly motivated postdoctoral researcher to do a petro-geochemical investigation of the melt-rock and fluid-rock interactions that occurred through time over the Rainbow massif from available samples. Candidates with a PhD in petrology, geochemistry or related fields are expected. Strong collaborative skills to work within an interdisciplinary team is mandatory since the candidate will strongly interact with other scientists involved in the project, notably those in charge of the structural study of the Rainbow massif and the thermo-mechanical models of the OCC exhumation (ENSP). Candidates must be familiar with the classical techniques of rock characterization (e.g. optical and electron microscopy, XRD, vibrational spectroscopy, electron microprobe...) which are all available in Lyon or in Paris. The successful candidate is expected to perform non-traditional stable isotope measurements at IPGP (Fe, Zn and Cu isotopes). Experience in clean room laboratory and mass spectrometer analyses (MC-ICP-MS will be appreciated but not mandatory).

This is a two-year position. The candidate will be located in Lyon, within the Geology Laboratory (LGLTPE) under the supervision of Muriel Andreani, Professor at Univ. Lyon 1, and in collaboration with Baptiste Debret, CNRS researcher, at IPGP, where several stays are to be expected.

#### To apply :

Please contact Muriel Andreani at [muriel.andreani@univ-lyon1.fr](mailto:muriel.andreani@univ-lyon1.fr) for any questions or to send applications. The latter must include a CV with education history and research experiences, a list of publications, and the names and contact information of 2 references. Université Lyon 1 is committed to promoting diversity and inclusivity. We encourage applications from all qualified individuals, including those from underrepresented groups in Earth sciences. Examination of applications will start at the end of August 2024 and the position will remain open until filled.