

# Université Claude Bernard Lyon 1- Hosting offer for a MSCA Post-doctoral fellowship candidate in X-ray Computed Tomography of hydrothermal chimneys

<b>Host Organisation</b>	<b>Université Claude Bernard Lyon 1</b>
<b>Department</b>	<b>Earth &amp; Planetary Sciences</b>
<b>Laboratory</b>	<b>Laboratoire de Géologie de Lyon (LGL-TPE)</b>
<b>Website (lab / research team)</b>	<b><a href="https://lgltpc.fr/">https://lgltpc.fr/</a></b>
<b>Supervisor Contact name</b>	<b>Isabelle Daniel</b>
<b>Supervisor Contact email</b>	<b>Isabelle.daniel@univ-lyon1.fr</b>

## **Host Organisation**

The Université Claude Bernard Lyon 1 welcomes Marie Skłodowska Curie Postdoctoral Fellowships applications !

With 62 laboratories and more than 7000 publications per year, and leading French university in terms of the number of patents filed in collaboration with industry, Lyon 1 contributes to scientific and innovation progress in numerous fields: health, mathematics, IT, physics, chemistry, earth and space sciences, life sciences, etc. Creator of emerging knowledge and new technologies, the University is consolidating its research excellence on a global and international level by developing inter- and multidisciplinary approaches targeting the major challenges facing today society.

## **Host research lab/team**

The Laboratoire de Géologie de Lyon (LGL-TPE) is a leading research lab in Europe in Earth and planetary sciences. The general objective is to understand the formation and evolution of Earth and other planets, their dynamics as well as the emergence and evolution of life. To achieve this, research activities span across a broad spectrum of topics, including the formation of the solar system, the dynamics of the Earth and other planets through time, the dynamics of the lithosphere, palaeontology and evolution, paleoclimatology, exobiology.

The Biosignature and Primitive Life research team develops models relevant to the emergence of life based on the analysis of unique natural samples and experiments. The team includes palaeontologists, mineralogists and geochemists.

### **Hosting Offer**

The **LGL-TPE** offers to host a MSCA Postdoctoral Fellowship candidate (typically a post-doc of less than 8 years research experience since PhD defence), submitting an application to the next MSCA-2026-PF call for proposals (deadline 09<sup>th</sup> of September 2026), interested to work on hydrothermal chimneys collected along the mid-Atlantic ridge along the following lines:

- Analysing and integrating the X-ray computed tomography measurements of the chimneys, available at three different resolutions from the 100 microns to the submicron resolution toward the interpretation of their high-resolution structure.
- Deciphering the flow of hydrothermal fluids in these highly dynamic structures.

An experimental facility operating at hydrothermal conditions is available to provide complementary data, as needed.

The fellowship could last for 12 to 36 months, depending on the type of Postdoctoral Fellowship.

### **Supervision**

The successful Marie-Curie Post-doctoral fellow will be supervised by Isabelle Daniel in collaboration with Muriel Andreani.

Isabelle Daniel is mineralogist with a strong expertise in high-end experimental and analytical methods. Her research interests include the habitability of the Earth and planetary interiors. Over the last years, she has attended oceanographic expedition and sampled unique hydrothermal chimneys at ca. 2300 m water depths to evaluate their potential for abiotic reactions. Muriel Andreani is a recognized mineralogist and petrologist of the sea floor and has led oceanographic cruises.

### **Application process**

Interested candidates are invited to contact us exclusively by email at [Isabelle.daniel@univ-lyon1.fr](mailto:Isabelle.daniel@univ-lyon1.fr)

Make sure that you include the reference to this offer in the title of your email. Please attach a CV, a motivation letter, your MSc marks, **as well as a 1 page research proposal**.

**Professional grant application support:**

Candidates will receive the support of the supervisors, as well as online training from a professional grant application company, and advices from successful applicants, to prepare and submit their application with the LGL-TPE as a host laboratory, to the next MSCA-PF call for proposals.