

## Offre d'emploi :

**Thèse (H/F) au LGL-TPE (ENS de Lyon site), Labex LIO**

PhD - CDD	Job :	Qualifications : Master
	<b>catégorie :</b>	
Period 36 month / 3 years	Remuneration: €1768 per month + annual €2 000 package for travels and equipment	Starting date : October 1, 2021

The Université de Lyon is a world-class academic site of excellence. It is located at the heart of the Auvergne-Rhône-Alpes region, in Lyon & Saint-Étienne.

The Université de Lyon, which is structured around 12 member institutions and 25 associated institutions, has three major objectives:

- To be a major, attractive and responsible university
- To provide outstanding training and research opportunities
- To develop and promote the dynamics of the Lyon Saint-Etienne site

### Description of LabEx LIO

In 2011, The Lyon Institute of Origins LabEx was selected following the first "Laboratory of Excellence" call for projects, part of the "Investissement d'Avenir" program for forward-looking research. It is one of 12 LabExes supported by the University of Lyon community of universities and establishments (COMUE). LIO brings together more than 200 elite researchers recruited throughout the world and forming 18 research teams from four laboratories in the Rhône-Alps region, all leaders in their fields, under the auspices of the University Claude Bernard Lyon 1 (UCBL), the Ecole Normale Supérieure de Lyon, and the CNRS. LIO's goal is to explore questions about our origins, operating in a broad field of study that ranges from particle physics to geophysics, and includes cosmology, astrophysics, planetology and life.

## JOB DESCRIPTION

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**Job location:** LGLTPE at ENS de Lyon, 46 allée d'Italie, 69364 Cedex 07

**Supervisor:** Caroline Fitoussi

**Teams:** Earth and Planets

**Research project:** 'Deciphering the origin of micrometeorites'

The extra-terrestrial matter that is deposited on Earth consists of large bodies (meteorites with a size ranging from a few cm to a few km) and small bodies (<1mm) called micrometeorites. There is a consensus about the fact that meteorites that represent less than 0.1% of the mass accreted by Earth every year come from the asteroid belt located between Mars and Jupiter. The origin of small grains, however, has been a topic of debate over the past decades with essentially two possible proposed origins, with various arguments either in favor of an asteroidal origin or cometary.

The goal of this PhD project is to get a better understanding of the origin of these grains by measuring the abundance of cosmogenic nuclides for a group of micrometeorites or individual micrometeorites (collected in Greenland, Antarctica or on the seafloor), together with modelling cosmogenic nuclides production rates.

## QUALIFICATIONS / SKILLS

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**Qualifications:** master 2

**Skill:** solid background in inorganic chemistry and Earth sciences/geochemistry

**Research requirements:** experience in a clean lab is required. Experience in isotope geo-cosmochemistry (mass spectrometry, modelling) would be highly appreciated.

## SELECTION PROCESS

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**Information about the job:** Caroline Fitoussi

[caroline.fitoussi@ens-lyon.fr](mailto:caroline.fitoussi@ens-lyon.fr)

### **Request candidature:**

**The candidates must submit** their application with (i) their academic curriculum of the last three years, (ii) a letter of motivation, (iii) a CV and (iv) a letter of recommendation, to [labex.lio@universite-lyon.fr](mailto:labex.lio@universite-lyon.fr) before **May the 1st, 2021.**

