



The [Laboratory of Geology at Lyon](#) (Université Lyon1 & ENS de Lyon, France) invites applications for a postdoctoral research associate in environmental microbiology - biogeochemistry

The project is part of the multi-disciplinary consortium [Science For Clean Energy](#) (S4CE) funded by the European Research Council (ERC). S4CE has been established to understand the underlying mechanisms underpinning sub-surface geo-energy operations and to measure, control and mitigate their environmental risks. The PDRA will work in close collaboration with an international group of scientists on deciphering the role of the subsurface biosphere in the C, N and S biogeochemical cycles affecting energy-generating geo-operations. Research focuses on the analysis of the metabolic activity of key microorganisms that develop at depth in geothermal wells and CO₂/H₂S injection wells for enhanced geothermal energy (EGT) and carbon capture sequestration (CCS), respectively. Sampling of underground fluids is scheduled at two sites in 2018. The goal of the project is to characterize the metabolism of key microorganisms under subsurface conditions. The research involves the cultivation of various microbial strains of relevance for the sampled subsurface environments under simulated conditions of the subsurface (high pressure and/or high temperature). A unique pressure facility is available at the LGL allowing monitoring of metabolic reactions using in situ spectroscopy.

The candidate should hold a PhD in microbiology with expertise in environmental microbiology and microbial physiology. An experience in microscopy and spectroscopy is appreciated but not required.

The successful candidate is expected to work in both independent and collaborative group environments and to be self-motivated to accomplish the research goals. The initial appointment will be for 18 months in the first instance. The net salary 28000-30000 €/year, depending on experience, includes health insurance and social benefits. Information on the cost of living in Lyon can be found here: <https://www.numbeo.com/cost-of-living/in/Lyon>.

To apply, please submit a single PDF document to Isabelle Daniel (isabelle.daniel@univ-lyon1.fr) incorporating the following: a cover letter, contact information for two references, curriculum vitae with a publication list, and a statement of past research accomplishments and future research goals (two pages or less).

Complete applications will be reviewed every two weeks, starting now, until the position is filled.