

General Profile :

The position is opened at the University of Lyon in the frame of an interdisciplinary research field focussing on physical-chemistry studies of the interaction of minerals with environment through optical methods. This research is performed within the « Institut de Chimie de Lyon (ICL) » and implies collaborations with the « Institut des Sciences Analytiques (ISA) », the « Fédération de Physique André Marie Ampère » and the « Laboratoire des Sciences de la Terre ».

Research profile:

The professor will work in the group « Verres, Nanostructures et Géomatériaux » of the LPCML laboratory. The research conducted in this group is based on optical spectroscopy of minerals and synthetic (or natural) glasses, in particular glasses used for waste immobilization, in collaboration with the different groups of the LPCML.

The successful candidate will conduct research on structural properties of materials and geomaterials through Raman, Infrared and Photoluminescence for waste immobilization, biomaterials and diverse applications.

Skills in simulation methods related to the experimental methods developed in the laboratory will be appreciated.

The new professor will take part in the management of the CECOMO (Common Centre for Optical Microspectrometry) and of the new centre of Vibrational spectroscopies of ICL ensuring a good collaboration with ISA.

Strong collaborations with industrial partners and participation to international and national research programs are expected.

Teaching profile:

Levels concerned: Licence and Master.

Teaching objectives: The successful candidate will teach at all levels at both undergraduate and graduate levels (Licence and Master) and will be in charge of Physics teaching modules.

A particular implication of the candidate will be awaited in Material Sciences and Earth Sciences by the development of practical works in optical and spectroscopic characterization of materials, physical mineralogy, crystallography and gemmology.

• Laboratoire d'accueil :

Laboratoire de Physico-chimie des Matériaux Luminescents (LPCML, UMR5620 UCBL/CNRS).

• Contacts :

- La directrice du laboratoire : Marie-France JOUBERT (joubert@pcml.univ-lyon1.fr)
- Le responsable du groupe VNG : Bernard CHAMPAGNON (champ@pcml.univ-lyon1.fr)
- Le Président de la 30^{ème} Section : Georges BOULON (boulon@pcml.univ-lyon1.fr)

