

OPEN POSITION

- Maître de Conférences en 35^{ème} section (Structure et évolution de la Terre et des autres planètes) – Assistant professor
- Profil : **Mineralogy**
- **The Institute of Mineralogy, Physics of Materials and Cosmochemistry (IMPMC) seeks an assistant professor to set a strong research program in Mineralogy. Research could focus on the properties, formation and evolution of minerals as tracers of fundamental geophysical, geochemical, cosmochemical and geobiological processes, in ancient and/or present geo-systems, from the molecular to the planetary scale.**

LOCALIZATION

- Faculty of Sciences and Engineering of Sorbonne University

RESEARCH

IMPMC has for many years developed an original expertise in Earth and environmental sciences at Sorbonne University using various analytical platforms, large instruments (synchrotron, neutron, FEL sources) and unique theoretical skills.

The recruited lecturer will develop his(her) research in one of the IMPMC's Mineralogy teams or at an interface between several teams (<http://www.impmc.upmc.fr/fr/recherche.html>). Research activities therefore present a wide range of subjects involving the study of natural objects or their experimental analogues, using state-of-the-art analytical or theoretical tools. The research of the new lecturer can fit in one of the following areas:

- physical mineralogy and geochemistry of the deep Earth and planetary interiors
- extraterrestrial mineralogy, meteorites, cosmochemistry
- environmental mineralogy and geochemistry
- mineral resources and geomaterials
- bio-mineralogy
- rocks and carbon cycle

The candidate will be able to propose an original research program in these fields, e.g. by integrating the analysis of natural samples collected during field studies and / or products of laboratory experiments. In all cases, he / she will have a solid experience in the use of advanced mineralogy techniques (electron microscopy; diffraction techniques; nuclear, electron or vibrational spectroscopies; analytical and/or experimental techniques based on ion beams and/or synchrotron light; molecular modeling) that are available at IMPMC or through the use of large instruments. A use of transmission electron microscopy, as part of the candidate's project, will be a plus given the forthcoming installation of a new corrected-TEM at Sorbonne University.

The IMPMC is indeed in charge of the installation of an advanced microscopy platform in Paris-Center (PANAM, PARIS Network for Advanced Microscopy), which will offer state-of-the-art analytical capabilities through two electron microscopes dedicated respectively to (i) spatially and spectrally resolved ultimate spectroscopic analysis and (ii) the study of materials under environmental conditions. These instruments will contribute to the best international level in the field of the study of materials and their properties, especially in geosciences.

TEACHING

Sorbonne University offers students a multidisciplinary training in Earth Sciences and Environment. In this context, the requested lecturer profile concerns all the Geosciences and Environment sectors of the UFR "Terre, Environnement, Biodiversité", at all university cycles. It may also include the teaching of Earth and environmental sciences in the curricula at the interfaces with the physics, chemistry and biology courses as well as participation in the training courses of the masters.

LABORATORY

Institute of Mineralogy, Physics of Materials and Cosmochemistry (IMPMC)

Sorbonne Université - UMR 7590 CNRS – MNHN – IRD

Location: Campus Pierre et Marie Curie, 4 Place Jussieu, 75005 Paris

<http://www.impmc.upmc.fr/fr/index.html>

CONTACTS : G. Fiquet (IMPMC director), (Guillaume.fiquet@sorbonne-universite.fr) and/or E. Balan (Etienne.Balan@sorbonne-universite.fr)

N.B. This position still needs the official approval of the administrative council of Sorbonne University. Please note however that QUALIFICATION is a necessary pre-screening step in order to be eligible for application to professors' and lecturers' bodies in French universities.

Deadline is October 24st 2018 (see https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_qualification_droit_commun.htm).