



## Campagne d'emplois 2022

## Enseignants-Chercheurs

⇒ rang n° :

 Création Maintien

Si maintien, n° emploi national : 64PR2036

Corps :	<input type="checkbox"/> Maître de conférences - <input checked="" type="checkbox"/> Professeur des universités
Chaire :	<input type="checkbox"/> oui - <input checked="" type="checkbox"/> non
Recrutement BOE :	<input type="checkbox"/> oui - <input checked="" type="checkbox"/> non
Section CNU n° 1 :	64
Section CNU n°2 :	
<b>Profil synthétique:</b>	Structural Biochemistry et Cryo-Electron Microscopy
Composante, service ou département :	UFR BioSciences
Unité de recherche :	UMR N°5086 (199411772B) Molecular Microbiology and Structural Biochemistry

**TEACHING :**

The recent revolution in electron microscopy resolution is a game changer in the field of structural biochemistry. It allows a better understanding at the atomic scale of the structure/function relationships of an ever-increasing number of biological macromolecules. The person recruited will be able to teach not only molecular biology, biochemistry but also the cutting-edge methods in cryo-electron microscopy, at the Bachelor's (Licence) and Master's levels of the Biochemistry course. He/she will be strongly involved in the development and management of new courses using cryo-EM and 3D reconstruction of isolated biological macromolecules, such as the M1 and M2 new courses in "Structural Biology" and "Integrated Structural Biology".

Teaching contact (Name, Firstname, Quality, Mail, Phone):

Gouet, Patrice, Professor, [patrice.gouet@ibcp.fr](mailto:patrice.gouet@ibcp.fr), 04.72.72.26.24 and Mebarek, Saida, Assistant Professor, [saida.mebark@univ-lyon1.fr](mailto:saida.mebark@univ-lyon1.fr), 04.27.46.57.21, in charge of the Biochemistry teaching team

**RESEARCH :**

The candidate will develop his/her research projects at the Molecular Microbiology and Structural Biochemistry Laboratory (MMSB, UMR 5086 CNRS Université Lyon 1) located at the Lyon-Gerland bio-district. The unit studies several aspects of microbe biology ranging from the microbial life cycles, signalling pathways, membrane transporters, drug resistance mechanisms to the host-pathogen relationships. The candidate will have to demonstrate his/her ability to create his/her own projects and team, which will be specialised in high resolution studies of single biological macromolecule by cryo-EM. He/she will have to carry out an original and high-level research, aiming at deciphering molecular and structural mechanisms in microbial pathogens (bacteria, viruses, parasites). He/she should be able to interact with the unit's teams to develop new collaborations. He/she will play a leading role in the development of structural electron cryo-microscopy in the unit and more globally in Lyon. He/she will have access to Lyon's high-level technological platforms and will participate in the implementation of a new 200 kV FEG cryo-microscope on the Lyon-Gerland site, which will be used for the studies of pathogens in a biosafety laboratory and for the structural studies of the assembly of their protein macromolecular complexes.

Research contact (Name, Firstname, Quality, Mail, Phone):

Grangeasse, Christophe, Research Director, Head of the MMSB laboratory, [christophe.grangeasse@ibcp.fr](mailto:christophe.grangeasse@ibcp.fr), 04.37.65.29.34