



Campagne d'emplois 2021

Enseignants-Chercheurs

⇒ rang n° :

☐ Création☒ Maintien

Si maintien, n° emploi national : 64PR2036

Corps :	☐ Maître de conférences - ☒ Professeur des universités
Chaire :	☐ oui - ☒ non
Section CNU n° 1 :	64-Biochemistry and molecular biology
Section CNU n° 2 :	
Profil synthétique:	Structural Biochemistry and Cryo-Electron Microscopy
Composante, service ou département :	UFR BioSciences
Unité de recherche :	UMR N°5086 (199411772B) Molecular Microbiology and Structural Biochemistry

TEACHING (5 to 10 lines):

The recent revolution in electron microscopy resolution has transformed the field of structural biochemistry. It provides a better understanding at the atomic scale of the structure/function relationships of an ever-increasing number of biological macromolecules. The recruited person will be able to teach molecular biology, biochemistry and the revolution in structural biochemistry that is cryo-electron microscopy, at the License and Master levels of the Biochemistry courses (credit units of Molecular Biology, Experimental Biochemistry, Biophysics, Structural Biology). He/she will be attached to the Biochemistry teaching team (CNU 64) of the UFR Biosciences. He/she will be involved in the creation and direction of new teaching units using cryo-EM and single-particle reconstruction of biological macromolecules, in particular within the framework of the creation of a master's course aimed at immediate professional integration.

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

- Gouet, Patrice, Professor, patrice.gouet@ibcp.fr, 04.72.72.26.24 and Noiriél, Alexandre, Assistant Professor, alexandre.noiriél@univ-lyon1.fr, 04 27 46 57 31, in charge of the Biochemistry teaching team

RESEARCH (5 to 10 lines):

The candidate will develop his/her research projects at the Molecular Microbiology and Structural Biochemistry Laboratory (MMSB, UMR 5086 CNRS University of Lyon 1) located at the Lyon-Gerland bio-district. The unit works on the life cycles of microbes, signaling pathways, membrane transporters, drug resistance mechanisms as well as host-pathogen relationships. The candidate will have to demonstrate his/her ability to create his/her own team, which will be specialized in high resolution studies by cryo-EM of the structure of single biological macromolecules. He/she will have to carry out an original and high-level research, aiming at deciphering the molecular and structural mechanisms of the physiology and/or pathogenesis of microorganisms (bacteria, viruses, parasites). He/she should be able to interact with the unit's teams to develop new collaborations. He/she should play a central role in the development of the cryo-EM studies in the unit and more generally in Lyon. He/she will have access to high-level technological platforms in Lyon, including the Protein Sciences platform at UMS 3444 in Gerland and the technology center for microstructures at La Doua which hosts transmission electron microscopes (cryo-TEM 120 kV and TEM FEG 200 kV).

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

- Grangeasse, Christophe, Research Director, christophe.grangeasse@ibcp.fr, 04.37.65.29.34