



Postdoctoral Fellowships

MSCA

Marie Skłodowska-Curie Actions

*Developing talents,
advancing research*



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Nicolas Biais
Supervisor page	https://www.labojeanperrin.fr/?nbiais
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire Jean Perrin https://www.labojeanperrin.fr/?lang=en
Research Team	Micro-organisms biophysics https://www.labojeanperrin.fr/?article7

Project Title

Mechanobiology of Bacterial Aggregates.

Project Description

This project explores how physical forces influence early formation of the bacterial communities known to shape the world as we know it, the bacterial biofilms . By studying both pathogenic and commensal species, the candidate will use molecular biology, genetics, biophysics, and live microscopy to investigate the impact of mechanical cues in bacterial physiology. Understanding these interactions could lead to new strategies for controlling bacterial spread and combating antibiotic resistance.

Keywords

biofilms , antibiotic resistance, type IV pili

Description of the Host Research Lab

LJP research activities consist in Physics at the interface of with Biology and Medicine. We develop new experimental approaches to probe complex biological systems at different scales, and we develop bio-inspired systems to develop new concepts or to improve our understanding of given biological mechanisms. A large part of our research aims at exploring the response of a biological system to external perturbations. Finally, the LJP includes a theoretical component closely interacting with experimenters.

To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr