



MSCA

Marie Skłodowska-Curie Actions

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Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Jessem Landoulsi
Supervisor page	http://www.lrs.upmc.fr/fr/equipe-du-lrs/personnel-permanent/jessem-landoulsi.html
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Laboratoire de Réactivité de Surface https://lrs.sorbonne-universite.fr/en
Research Team	Biointerfaces https://lrs.sorbonne-universite.fr/node/1551

Project Title

Exploring protein-mineral interfaces: from single-molecule measurements to the design of biomimetic nanostructured materials

Project Description

Biogeochemical models use crude representations of physical and biogeochemical mechanisms driving particle fate in the mesopelagic zone. We propose to develop a more detailed, mechanistic model to describe particle interactions, sinking, and degradation.

Keywords

biomineralization, atomic force microscopy (AFM), collagen

Description of the Host Research Lab

Research at the Laboratoire de Réactivité de Surface is focused on developing and controlling the surface of inorganic materials (such as metal oxides) for applications in heterogeneous catalysis (pollution control, “green” processes, upgrading of bio-sourced molecules or pollutants) and biointerfaces (biosensors, anti-biofilm surfaces, biopiles, prebiotic chemistry).

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