



**MSCA**

Marie Skłodowska-Curie Actions

*Developing talents,  
advancing research*

## Postdoctoral Fellowships



### CALL FOR APPLICATIONS 2025 – FELLOWS

<b>Supervisor</b>	Abhay Shukla
<b>Supervisor page</b>	<a href="https://impmc.sorbonne-universite.fr/fr/equipes/mineralogie-et-magnetisme-de-basses-dimensionnalites-mimabadi/liste_des_membres/permanents/abhay_shukla.html">https://impmc.sorbonne-universite.fr/fr/equipes/mineralogie-et-magnetisme-de-basses-dimensionnalites-mimabadi/liste_des_membres/permanents/abhay_shukla.html</a>
<b>Host Institution</b>	Sorbonne Université <a href="https://www.sorbonne-universite.fr/en">https://www.sorbonne-universite.fr/en</a>
<b>Research Lab</b>	Institute of Mineralogy, Physics of Materials and Cosmochemistry <a href="https://impmc.sorbonne-universite.fr/en/index.html">https://impmc.sorbonne-universite.fr/en/index.html</a>
<b>Research Team</b>	Mineralogy and magnetism with low dimensionality <a href="https://impmc.sorbonne-universite.fr/en/research_teams/mineralogy-and-magnetism-with-low-dimensionality.html">https://impmc.sorbonne-universite.fr/en/research_teams/mineralogy-and-magnetism-with-low-dimensionality.html</a>

#### Project Title

2D Layered Magnetic Material Devices

#### Project Description

Layered magnetic materials are an ideal platform for investigating fundamental physics in two dimensions and probing eventual applications. Ultra-thin samples allow for control of carrier density and magnetism by electrical fields in a field effect transistor like device. The resulting interplay between structure, electronic structure and magnetism will be studied using low temperature transport measurements and spectroscopic means (Raman and photoluminescence).

#### Keywords

2D materials, magnetism, FET devices

#### Description of the Host Research Lab

The Institute of Mineralogy, Physics of Materials and Cosmochemistry (IMPMC) is a multidisciplinary institute of physics, earth sciences and biophysics-bioinformatics, located in the heart of Paris within Sorbonne University and the National Museum of Natural History.

To submit your application, please send an email with the required documents to  
[msca-pf@sorbonne-universite.fr](mailto:msca-pf@sorbonne-universite.fr)