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Marie Skłodowska-Curie Actions

*Developing talents,  
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## Postdoctoral Fellowships



### CALL FOR APPLICATIONS 2025 – FELLOWS

<b>Supervisor</b>	Olga Boyko-Kazymyrenko
<b>Supervisor page</b>	<a href="https://scholar.google.com/citations?user=xefYxgkAAAAJ&amp;hl=fr">https://scholar.google.com/citations?user=xefYxgkAAAAJ&amp;hl=fr</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 NanoSciences of Paris <a href="https://w3.insp.upmc.fr/en/insp-en/">https://w3.insp.upmc.fr/en/insp-en/</a>
<b>Research Team</b>	Acoustics and Optics for Nanosciences and Quantum Physics <a href="https://w3.insp.upmc.fr/en/research/research-teams/acoustics-and-optics-for-nanosciences-and-quantum-physics/">https://w3.insp.upmc.fr/en/research/research-teams/acoustics-and-optics-for-nanosciences-and-quantum-physics/</a>

#### Project Title

Exploring Elastic Wave Localization Through Resonant Nanostructures

#### Project Description

This project investigates elastic wave diffusion in resonant nanostructures. It focuses on wave transport in heterogeneous media, using systems with controlled resonant inclusions. Conventional methods lack non-invasive in situ analysis. The innovative picosecond acoustics technique, enabling high-resolution elastic wave mapping, is applied to nanocylinders. The aim is to understand resonance in isolated nanocylinders and explore materials fostering elastic wave localization through resonances.

#### Keywords

nanostructures, elastic wave localization, picosecond acoustics

#### Description of the Host Research Lab

The Institute of NanoSciences of Paris (INSP) brings together teams from four condensed matter physics laboratories. Its scientific objectives are at the heart of fundamental research in nanosciences, but it also has a wide range of applications: optoelectronics and telecommunications, earth sciences and the environment, catalysis and medical diagnostics.

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