



**MSCA**

Marie Skłodowska-Curie Actions

*Developing talents,  
advancing research*

## Postdoctoral Fellowships



### CALL FOR APPLICATIONS 2025 – FELLOWS

<b>Supervisor</b>	Giovanni Calderini
<b>Supervisor page</b>	<a href="https://scholar.google.it/citations?user=1HdfiUQAAAAJ&amp;hl=en">https://scholar.google.it/citations?user=1HdfiUQAAAAJ&amp;hl=en</a>
<b>Host Institution</b>	Centre National de la Recherche Scientifique (CNRS) <a href="https://www.cnrs.fr/en">https://www.cnrs.fr/en</a>
<b>Research Lab</b>	Laboratoire de physique nucléaire et de hautes énergies <a href="https://lpnhe.in2p3.fr/">https://lpnhe.in2p3.fr/</a>
<b>Research Team</b>	ATLAS <a href="http://lpnhe.in2p3.fr/spip.php?rubrique7">http://lpnhe.in2p3.fr/spip.php?rubrique7</a>

#### Project Title

Development of silicon pixel sensors with internal charge multiplication for tracking applications in High Energy Physics

#### Project Description

Tracking in High Energy Physics requires space and timing information to resolve trajectories in dense environment. With respect to traditional pixel position detectors, timing information at the level of tens of ps requires charge multiplication inside the device. We are developing Low Gain Avalanche Detectors and CMOS devices with internal multiplication which will provide 4D tracking for experiments at future colliders (LHC upgrade at CERN, Future Circular Collider).

#### Keywords

semiconductor detectors, tracking detectors, radiation detectors

#### Description of the Host Research Lab

The LPNHE is involved in several major experimental programs, international collaborations with the world's leading research facilities around the world, including particle gas pedal centers and observatories. These programs cover current issues in particle physics, astroparticles and cosmology.

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