



MSCA

Marie Skłodowska-Curie Actions

*Developing talents,
advancing research*

Postdoctoral Fellowships



CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Bernard Andrieu
Supervisor page	https://www.researchgate.net/profile/Bernard-Andrieu-2
Host Institution	Centre National de la Recherche Scientifique (CNRS) https://www.cnrs.fr/en
Research Lab	Laboratoire de physique nucléaire et de hautes énergies https://lpnhe.in2p3.fr/
Research Team	XENON https://xenonexperiment.org/

Project Title

Light Dark Matter search and solar neutrino measurements with the XENONnT experiment at the underground Laboratori Nazionali del Gran Sasso (LNGS)

Project Description

The XENONnT experiment, based on a dual phase xenon Time Projection Chamber (TPC), is leading the race for direct detection of possible Dark Matter particles and recently reported the first observation of coherent scattering of solar neutrinos. The candidate will build on the expertise in S2-only analysis of the XENONnT group at LPNHE to take a leading role in search for Light Dark matter and measurement of solar neutrino processes based on Electron Recoil detection.

Keywords

dark matter direct detection, solar neutrinos, dual phase xenon Time Projection Chamber

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 particle accelerator centers. 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