

JOB OFFER: Predoctoral/Postdoctoral positions

The [Structured Light and Matter Unit \(LUMES\)](#) at the Universidad de Salamanca, established and funded by the Regional Government of Castilla y León, is looking to hire a one-year Predoctoral researcher and a one-year Postdoctoral researcher starting in **November 2025**.

Responsibilities:

Theoretical and/or experimental support for the research lines developed at the LUMES Excellence Unit.

Research projects/lines available:

Line 1: Microstructuring of materials with femtosecond lasers. Applications to ultrafast nonlinear optics.

Line 2: Generation of harmonics in quantum materials.

Line 3: Highly nonlinear optical neuromorphic networks.

Line 4: Characterization of ultrashort laser pulses in the temporal and/or spatiotemporal domain.

Line 5: Modelling magnetic order in 2D materials.

Line 6: Antiferromagnetic spin wave dynamics induced by structured light.

Line 7: Nonlinear propagation of structured laser beams.

Requirements:

- For the pre-doctoral position: have a Bachelor's and Master's degree related to the field.
- For the post-doctoral position: have a PhD related to the field.
- A CV and a motivation letter indicating the projects/lines of research of interest (PDF document of maximum 4 pages, which must be uploaded at the time of application).

Conditions:

- Full-time position (37.5 hours per week).
- Gross salary: €20,000-€25,000 per year, depending on the type of contract.
- Contract duration: one year.
- Start date: Nov 1, 2025.
- Workplace: University of Salamanca, LUMES Research Unit, Historic Campus.

Application deadline: September 12, 2025.

More information, application and documentation submission: <https://lumes.usal.es/en/job-opportunities/>

Contact: lumes@usal.es

This position is funded by FEDER 2021-2027 funds (Excellence Ladder CLU-2023-1-02).