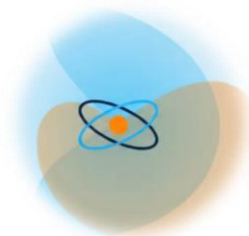


FAST GROUP - Institute for Photonics and Nanotechnologies

The FAST group is a multidisciplinary team of engineers and physicists, both from IFN-CNR and the Physics department from Politecnico di Milano, committed to the development and application of photonic and microfluidic devices fabricated by femtosecond laser micromachining of glass or polymeric substrates.



PhD student in the field of Ultrafast Chirality for Life and Technology (EU MSCA Project TRILOGY)

Job profile:

The EU-funded Horizon Europe Doctoral Network TRILOGY advances the emerging field of ultrafast chirality by exploiting attosecond light-driven electron dynamics to overcome the limits of conventional chiro-optical methods. Targeting applications in the life sciences and advanced technologies, it develops next-generation, high-sensitivity spectroscopic tools to excite and probe electron motion in chiral molecules, supported by close collaboration with industrial partners to enable rapid translation into applications.

TRILOGY brings together 11 leading institutions across Europe to train 16 Doctoral Candidates at the forefront of theory and experiment in ultrafast science. The programme offers a unique, interdisciplinary environment and equips researchers with highly competitive skills spanning fundamental physics, technology development, and industry.

Requirements:

We seek an outstanding and highly motivated candidate holding a Master's degree (or equivalent) in Physics or engineering with an excellent academic record. The ideal applicant combines strong analytical ability with a genuine interest in experimental physics and thrives in a collaborative, high-level research environment. Demonstrated expertise in femtosecond laser micromachining, optics and photonics, along with programming and numerical skills, will be considered a significant advantage.

Applicants must fulfil the transnational mobility requirement of the programme, i.e. they must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months within the 36 months immediately prior to the recruitment date (exceptions apply for procedures under the Geneva Convention).

At the time of recruitment, applicants must not yet hold a doctoral degree. Candidates who have already defended their thesis but have not formally been awarded the degree are not eligible.

Offer:

This full-time position is offered for a fixed term of three years, with a planned start date of November 1st 2026 (or shortly thereafter). The position is funded through the Marie Skłodowska-Curie Actions and includes a remuneration package in accordance with European Commission guidelines. This comprises a monthly Living Allowance of €4,058.12 and a Mobility Allowance of €710. A Family Allowance of €660 per month is provided where applicable. The above amounts correspond to the gross employer salary and are subject to national taxes and deductions in Italy. Depending on individual circumstances, the resulting gross monthly salary is approximately €2,900 (without family allowance). The position includes standard social benefits, such as 30 days of paid annual leave (based on a five-day working week) and flexible working arrangements.

IFN-CNR promotes an equity-based workplace and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply. If equally qualified, applicants with a disability will be given preference.

For further information about the application and the project, please contact Dr. Rebeca Martínez Vázquez

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CNR-IFN

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