



ENGINEERING COMBINED SENSING AND TELECOMMUNICATIONS
ARCHITECTURES FOR TECTONIC AND INFRASTRUCTURE
CHARACTERISATION

Brief description

ECSTATIC is a unique initiative that seeks to evaluate the most important fibre-optic sensing techniques in real-life telecommunication infrastructures, *integrating high-speed optical communication with distributed sensing*, offering real-time data acquisition, monitoring, and analysis. This integration promises to enhance the intelligent functionalities of ubiquitous optical networks, pushing the boundaries of what is achievable with traditional optical communication systems.

Programme:

Horizon Europe (HORIZON)

Call:

[Digital and emerging technologies for competitiveness and fit for the Green Deal \(HORIZON-CL4-2024-DIGITAL-EMERGING-01\)](#)

Name of the research group

Photonics Research Group (GROC-UJI)

Offer description

Postdoctoral Researcher Position for the development of distributed fiber sensors compatible with telecommunications networks. A significant part of the work will be experimental, focusing on the control and characterization of the light sources integrated into the sensor.

Skills/Qualifications

PhD in Photonics related to one of the topics listed below (see specific requirements).

Specific Requirements

Knowledge and experimental experience in one or more of the following topics:

- Optical frequency combs
- Distributed fiber sensing
- Integrated Photonics
- Fiber telecommunications
- Interferometry for sensing and optical metrology

Other relevant qualifications:

- Proficiency in English
- Knowledge in numerical simulation and data processing.
- Willingness to travel

Additional Information

Contract duration: 2.5 years

Contact person

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