Predoctoral Position Available at University of Alcalá (Spain)

The Photonics Engineering Group (GRIFO) at the University of Alcalá (Alcalá de Henares, Madrid) is a young and enthusiastic team dedicated to developing photonic solutions for communications and sensing, and efficient photovoltaic technology. We are currently offering a predoctoral researcher contract within the framework of the project "**SEASNAKE+: Industrial upscale of surface protection system & fibre optic-based condition monitoring for the SEASNAKE MVC (Medium Voltage Cables).**"

Position Overview:

The selected candidate will actively engage in projects within our distributed optical fiber sensing research line. This includes the development of novel fiber-interrogation methods, implementation of fiber-based dynamic shape sensors, quasi-distributed chemical sensing, and more. Our work covers both scientific and application perspectives, aiming to develop new technology and reach in-field testing in real-world environments. The candidate will acquire the necessary knowledge and skills to carry out the work effectively. He/she will have the opportunity to carry out international internships in prestigious research groups, and will participate in national and international congresses to disseminate the results of their research to the scientific community.

Requirements:

- **Educational Background:** A bachelor's or master's degree in a relevant field (e.g., photonics, physics, electrical engineering, telecommunications).
- **General Knowledge in Fiber Optics:** A basic understanding of one or more of the following areas is preferred but not mandatory, as training will be provided:
    - Optical fiber sensing
    - Optical signal processing
    - Generation of optical frequency combs
    - Inverse problems and data processing
- **Linguistic Skills:** Proficiency in English is highly valued.
- **Computer Skills:**
    - Basic knowledge of Matlab/Python is preferred.
    - Familiarity with LabView will be valued.

Application Process:

Interested candidates should send their curriculum vitae to M. Rosario Fernández at rosario.fernandezr@uah.es. Suitable candidates will be contacted to arrange an online interview to provide more details.

We look forward to receiving your application!