



The Fundació Bosch i Gimpera was created in 1983 as a knowledge, technology and innovation transfer center of the University of Barcelona (UB). As its own means, it is in charge of innovation, promotion, valorization, transfer of results and management of contracts, agreements and projects of the UB and needs to incorporate:

## **Postdoc**

### **Functions:**

The postdoc will focus on optimizing our full-Stokes polarization camera, enhancing both hardware and software to improve accuracy and efficiency. Responsibilities include refining optical components like polarizer arrays and retarders, developing algorithms for Stokes vector reconstruction, and implementing real-time calibration and noise reduction techniques. The role also involves experimental validation, analyzing performance in diverse applications such as biomedical imaging and remote sensing, and collaborating with transfer of the technology to the market.

### **Profile:**

The ideal candidate for this postdoc position holds a PhD with a strong background in polarization optics, including expertise in imaging systems, optical design, and signal processing. He/she should have experience with experimental setups, data analysis, and algorithm development, as well as a demonstrated ability to collaborate in interdisciplinary teams and contribute to scientific publications.

### **Competencies:**

The candidate should demonstrate excellent proficiency in written and spoken English to ensure effective communication and dissemination of research findings. Strong programming skills in MATLAB, Python, and LabVIEW are essential, particularly for algorithm development, data analysis, calibration, and hardware-software integration. Additionally, the candidate should possess solid problem-solving abilities, experience in designing and optimizing experimental setups, and a collaborative mindset to excel in research environments.

### **We offer:**

- Permanent contract
- Weekly schedule: 37,5
- Gross monthly salary: 2400 Euros

### **Reserve:**

Reserved for personnel with disabilities, in accordance with the provisions of Article 59 of the Legislative RD 5/2015, of October 30, passing the revised text of the Law of the Basic Statute of Public Employee.

### **Equality of opportunities:**

In accordance with the measures set forth in the Fundació Bosch i Gimpera Equality Plan, we incorporate the gender perspective in the selection process to guarantee equal opportunities, neutrality, transparency and avoid prejudice and discrimination based on gender.

**Additional information:**

- Project Director: Arteaga Barriel, Oriol
- Project Number: 600464

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