

## RESEARCH ASSISTANT/PHD STUDENT FOR OPTOMECHANICAL DIAGNOSTIC SYSTEM

**Location:** Madrid, Spain.

**Start Date:** July 2025

**Institution:** Instituto de Ciencia de Materiales (ICMM). Spanish National Research Council (CSIC)

### Description:

We are looking for a motivated candidate with a background in physics, telecommunications engineering, electrical engineering, or biomedical engineering to join a multidisciplinary team developing an innovative diagnostic system for infectious diseases. The project involves the design and characterization of a novel optomechanical platform for in vitro diagnostics (IVD).

### Responsibilities:

- Design and development of an optomechanical detection system.
- Experimental characterization and validation using biological samples.
- Integration of optical and mechanical components into a microfluidic platform.
- Data analysis and collaboration with teams specialized in microfluidics and AI-based signal processing.

### Requirements:

- Degree in Physics, Telecommunications Engineering, Electrical Engineering, or Biomedical Engineering.
- Solid knowledge of optics and/or detection systems.
- Hands-on experience with experimental setups and signal acquisition.
- Proficiency in technical English.

### Desirable:

- Experience in medical diagnostics or IVD devices.
- Knowledge of sensors, actuators, and precision mechanics.
- Familiarity with laboratory practices.

### We offer:

- Involvement in a cutting-edge deep tech research project with real-world clinical applications.
- Dynamic and collaborative research environment.
- Opportunity to pursue a PhD thesis within the Optomechanics Lab at CSIC.

### Application:

Interested candidates should send their CV and a short motivation letter **before 10th June** to: [daniel.ramos@csic.es](mailto:daniel.ramos@csic.es)

Please include "Optomechanical Diagnostics Position" in the subject line.