



Internship at the Institut de Physique et Chimie des Matériaux de Strasbourg CNRS & Université de Strasbourg, France

Job: The IPCMS in Strasbourg (France) offers remunerated internships in 2022-2023.

Faculty / Division: French National Research Center and University of Strasbourg

Contact Person: Salia Cherifi-Hertel, E-mail: Salia.Cherifi@ipcms.unistra.fr

Optical Studies of Ferroelectric Domain Walls

We offer remunerated internships of 16 weeks with possible extension up to 24 weeks.

Job Description

We are seeking a motivated student for the investigation of complex polarization textures at domain walls, and to control their nonlinear optical response at the nanoscale. The selected candidate will carry out second-harmonic generation microscopy and polarimetry analysis. The localized nonlinear optical response at the domain wall regions will be studied and modeled using numerical simulations based on symmetry considerations. The work will be conducted under the guidance of Salia Cherifi-Hertel with the help of a Postdoc and other staff members.

Skills

- Motivated student with strong background in optics and/or photonic materials and devices.
- Basic programming skills.
- Fluent English mandatory.

Work Context

This project will take place at the Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS) in France which is an academic research institute associated to the University of Strasbourg and the French National Scientific Research Center (CNRS). The host institute is at the forefront of international research in the areas of nanomaterials and nanoscience. It relies on experimental methods allowing the design and characterization of functional nanomaterials, as well as theoretical studies and multiscale simulations.

How to Apply

Send your application by e-mail to Salia.Cherifi@ipcms.unistra.fr

The following documents should be enclosed:

- CV in English
- Letter of Motivation in English (max. one A4 page)