

Post Doctoral Position:

Collaborative Microscopy solution: extension to new microscopes and new applications

Context:

HORIBA France is a manufacturer of scientific instrumentation and optical spectroscopy components. It is a world leader in Raman Microscopy, with equipment intended both for the research and industrial markets.

HORIBA France has developed a proprietary solution for collaborative microscopy. The HORIBA Center of Excellence in Raman microscopy, located close to Lille, is setting collaborations with neighbouring institutions in order to demonstrate the capability of its Collaborative Microscopy solutions for various applications, and to adapt it an increasing number of types and brands of microscopes.

Mission

The mission is to demonstrate the capability of the collaborative solution on several microscopes, for several applications, and to participate to the development of the technique by proposing and implementing improvements.

Actions and tasks

- Carry out correlative measurements on different types of materials, and various types of microscopes, at HORIBA application Lab and in various collaborative institutions
- Adapt the implementation of the correlative solution on particular microscope types or brands, by developing software add-ons for more efficient automation of calibration and relocalisation tasks
- Set up data visualization or processing methods of co-localized observations
- Write application notes
- Participate to the dissemination of the technique in the scientific community through publications and seminars
- Act as an expert and support toward the HORIBA application team.

Profile

- PhD or previous post doc with a significant emphasis in instrumentation
- Good background and understanding in microscopy principles and methods with knowledge from some of the following areas: Raman microscopy, Electron microscopy and/or Atomic Force Microscopy
- Understanding of correlative microscopy issues in at least one application area (Life Science, Material Science, Geology, ...)
- Strong interest in methods development.
- Computer skills allowing you to be quickly operational in the Labview, Python, R or C# programming environments.
- Good networking and collaborative capabilities with other Scientists
- Autonomy, adaptability and initiative
- Enjoy teamwork
- English: excellent level required (interventions in an international context, writing in English)

Location: Lille Area (59)

Start date: January 2021 or before

Contract type: 12-month fixed term (CDD)

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