**Research Fellow (Postdoc) – Cryo-TEM/STEM Characterisation of Beam Sensitive Materials**

**Job Reference:** RRP.12.42.09.4/1

**Employer:** International Iberian Nanotechnology Laboratory (INL)

**Location:** Braga, Portugal

**Group/Unit:** Nanostructured Materials

**Number of Vacancies:**1

**Employment Type:** Full time

**Contract Duration:**21 months

**Open Date for Applications:**December 28th, 2023

**Closing Date for Applications:** January 28th, 2024, 23h00m (Lisbon Time)

**Overview**

The Nanostructured Materials Research Group is dedicated to investigating fundamental aspects and dynamic phenomena at the atomic scale employing advanced electron microscopic techniques.

We are looking for a qualified Research Fellow to join our team in the project *“Production of Sodium-Ion Based Structural Batteries*”, under the PRR framework, under the New Generation Storage Agenda.

**Job Duties**

The job duties will be the following:

* Cryo-TEM/STEM characterisation of beam sensitive materials;
* Preparation of samples by conventional and cryo-based techniques;
* Dissemination of the work in international conferences;
* Publishing in high impact journals;
* Preparing technical and progress reports.

**Mandatory Qualifications**

**Education**

* PhD in Materials Science, Nanoscience and Nanotechnology, Electron Microscopy, Physics and Chemistry.

**Experience and Technical Skills**

* Use of cryo-TEM/STEM for imaging beam sensitive materials;
* Electron diffraction and spectroscopic techniques including EELS and EDS;
* Cryo-sample preparation and conventional sample preparation techniques;
* Writing project reports, publishing in high impact journals and adhering to strict deadlines.

**Preferred Qualifications**

**Experience and Technical Skills**

* Aberration corrected TEM/STEM and spectroscopic techniques;
* TEM/STEM image processing, simulations and modelling.

**Personal Skills**

* Hands-on” approach together with a high commitment in respecting working deadlines;
* Problem Solving ability;
* Customer orientation;
* Ability to work independently and as team player;
* Good communication skills.

**Our Benefits**

* Competitive salary;
* Tax benefits and other Diplomatic privileges;
* Private health insurance;
* Family allowances (according to family situation);
* Free nursery service at INL premises (subject to availability);
* Support for education fees of dependent children;
* Relocation support;
* 30 working days of annual leave.

**How to Apply**

The application **must be in English** and include the following**mandatory documents**:

a)     Cover letter;

*b)*     *Curriculum Vitae*;

*c)*      Academic and/or Professional diplomas;

d)     Recognition of academic degrees (only academic degrees awarded by non-Portuguese higher education institutions) **\***