**Ref.11.16.78 – Cryo Electron Microscopist**

Employer: Int. Nanotechnology Laboratory (INL)

Location: Braga, Portugal

Contract Duration: 4 years

Research Field: Electron Microscopy

Job Type: Full Time

Closing Date: February 10th 2017, 23:00h Lisbon time

Salary: Competitive package and benefits

**About INL**

The International Iberian Nanotechnology Laboratory - INL (http://www.inl.int), was founded under an international legal framework to perform interdisciplinary research and to deploy and articulate nanotechnology for the benefit of society. INL aims to become the world-wide hub for nanotechnology addressing society’s grand challenges with specific emphasis on Aging & Wellbeing, Mobility & Urban Living and a Safe & Secure Society.

The work undertaken by our research centre has a significant impact on people’s lives and societal benefit. The objective is to ensure that staff is employed on the basis of skills and requirements for the job and that there is a mutually beneficial relationship between INL’s expectations and the staff personal and professional career development. INL recruits from all over the world. We find the diversity and multiculturalism of our teams as well as family friendly working practices and benefits to be a great asset and an essential element in cultivating an attractive and inspiring workplace.

**Introduction**

INL is seeking an electron microscopist to join the Nanocharacterisation Facility to work primarily on the characterisation of soft-matter samples using Cryo-Transmission Electron Microscopy and Environmental Scanning Electron Microscopy. The position and salary offered will be commensurate with the experience of the successful candidate.

**Job Requirements and Key Responsibilities**

The successful applicant will work together with INL researchers and external research partners. The main responsibilities of this position are 1) provide the daily maintenance of a JEOL 2100 instrument with cryo capabilities and a FEI Quanta ESEM, 2) train new users in the preparation of samples, as well as use of the aforementioned instruments and support tools and 3) develop the characterization of soft-matter/biological samples.

**Desired Skills and Experience**

 -PhD degree in Science or Engineering;

-Experience with imaging of soft-matter/biological samples, including low-dose imaging, as well as 3D data acquisition and reconstruction.

-Experience with cryo-preparation of biological samples and hands-on knowledge of supporting tools including cryo-ultramicrotome, vitrobot, critical point dryer etc.

-Experience with TEM, STEM and SEM imaging techniques. These include, phase contrast TEM, diffraction contrast TEM, high angular annular dark field (HAADF) STEM and bright-field (BF) STEM, secondary electrons (SE) SEM, low vacuum plus ESEM mode and backscattered electrons (BSE) SEM.

-Experience with electron diffraction techniques, namely selected area diffraction and nanobeam diffraction.

-Experience with Energy Dispersive Spectroscopy (EDS)

-Experience with image processing and standard software for electron microscopy.

-Experience with sample preparation of other materials, such as metals, ceramics and electronic materials are a plus.

**Personal Skills**

Creative thinking, interested in applied science, willing to work in a team, communication, organizational and reporting skills

**Languages**

English is the working language of INL. Therefore, excellent communication skills in English are required.

**What we offer**

* Employment contract and competitive compensation package.
* Employees will also benefit of the various social facilities available at INL.
* International and highly competitive environment in contact with leading edge technology.

**How to Apply**

International candidates are welcome to apply. Only applications in English will be accepted. The application is made online. Please click on the 'Apply' button below;

*Interested applicants should submit a motivation letter, a full curriculum vitae and University transcripts. Incomplete applications will not be considered.*

**Employment Agreement**

If your application is successful and you accept our offer of employment you will receive the employment agreement and all other relevant documents. If you are relocating, you will be given assistance by the HR Office.

**If Your Application is Not Successful**

We highly value the interest shown from applicants wishing to become a part of the INL experience. It is important for us to maintain good communications with candidates. No matter the outcome of the application, we always send the applicant an answer.

**Equal Opportunity and Non-Discrimination Principle**

INL is an equal opportunity organisation, committed to providing equal career opportunities and firmly adheres to a principle of non-discrimination in respect of gender, age, nationality, racial group, or any other possible discriminatory issues.

*Enquires should be made to: hr.services@inl.int.*

*The advertisement deadline may be extended at any time without previous notice in order to improve the suitability and effectiveness of the recruitment process.*