



## **NanoTRAINforGrowth II - INL Post-Doctoral Fellowship Programme**

**INL is opening a call of 8 new positions to strengthen its research lines with highly qualified Research Fellows**

### **About INL**

The [International Iberian Nanotechnology Laboratory – INL](#), located in Braga, Portugal, 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 will have a significant impact on people's lives as well as notably contributing to the development of our society at large. INL recruits from all over the world and the objective of our recruitment process is to ensure that staff are 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 member's personal and professional career development. We value the diversity and multiculturalism of our teams. Further, our family friendly working practices and benefits are a great asset and an essential element in cultivating an attractive and inspiring workplace.

### **What is the NanoTRAINforGrowth II Programme?**

INL is launching the third call for the NanoTRAINforGrowth II - INL Post-Doctoral Fellowship Programme. This programme aims to provide an opportunity for talented and motivated researchers from all over the world and all nationalities to carry out ground breaking research projects at INL.

The selected candidates will have the opportunity to develop and carry out a research project in a highly stimulating and multicultural environment, which includes access to state-of-the-art equipment and personal career assistance.

The NanoTRAINForGrowth II - is co-funded by the European Union through the Marie Curie Action "Co-funding of regional, national and international programmes (COFUND)".

## Eligibility criteria

Eligibility criteria include the following:

- PhD in Physical Sciences, Biological Sciences, Engineering and related areas;
- Applicants of any nationality are eligible to apply;
- Submission of a complete application as stated in the section applications procedure;
- Applicants must not have been at INL for more than 12 months in the 3 years immediately prior to the deadline for submission of applications.

## Application Procedure

For the application to be valid, the candidate must complete the **online application form** and submit **all the required documents listed below in pdf format by the deadline of February 6<sup>th</sup>, 2018**– 23:00 WET:

1. A RTD Project Proposal following the [provided template](#). It is mandatory to submit a maximum 7 page RTD project proposal. Proposals not complying with these requirements will be automatically excluded;
2. A Curriculum Vitae in English. The CV must contain the complete name and contact details of 3 referees from whom INL can request a recommendation;
3. A complete list of indexed publications, ordered chronologically, with the complete list of authors ordered as in the journal, with the applicant's name in boldface, and the Digital Object Identifier (DOI) of the publication;
4. A screenshot of the citation report of Web-of-Science/ Google Scholar/ Scopus showing the total number of publications, citations and h-index;
5. A list of 3 selected publications/patents, each of them accompanied by a 100 word summary of the author contribution and the relevance of the publication;
6. Optional: Any other documentation providing evidence of the applicant's professional qualifications and experience.

Only full applications will be considered for evaluation. The application language is English. The applicant will be responsible for the data submission and validation of the application components before the deadline.

We recommend applicants to read the following documents:

- [Guide for Applicants](#) and [Guide for Evaluators](#).

## RTD Project Proposal

The RTD project proposal should describe the activities planned, following the [RTD project proposal template](#). The RTD project proposal must be made in a scientific topic chosen in line with INL ongoing research, articulated in our six Research Departments:

- **Department of Nanoelectronics Engineering** – The Department of Nanoelectronics Engineering brings together four areas of activity at INL, systems engineering, spintronics, nanodevices and Precision Medicines Engineering, addressing major challenges in industrial sensing, RF communications, biosensors and biomedical devices, agri-food and environmental monitoring applications.
- **Department of Life Sciences** - The Department of Life Sciences focuses its activities in the fields of food, health, and environment, particularly in: i) Nanoencapsulation technologies for smart and controlled drug/genes delivery and for enhancing bioavailability and functional properties of bioactives; ii) biosensors, microfluidic-based devices and integrated lab-on-a-chip solutions for food and water quality and safety as well as diagnostic and prognostic purposes; iii) advanced functionalities and applications

of bespoke nanostructured materials in combination with novel biomarkers and studies on biointerfaces.

- **Department of QMST – Quantum Materials, Science and Technology** - The Department of QMST, works towards the understanding of both materials and energy exchange processes at the nano-scale where the laws of nature are governed by quantum mechanics.
- **Department of Nanophotonics** - The Department of Nanophotonics aims to carry out top fundamental and applied research in areas such as biophotonics, photonic nanomagnetometry, plasmonics & materials, Bloch surface wave engineering and the design and application of photonic crystals.
- **Department of AEMIS: Advanced Electron, Microscopy, Imaging and Spectroscopy** - The Department of AEMIS performs true atomic/nano resolution electron imaging combined with atomic/nano resolution chemical analysis, in order to achieve a fundamental understanding of the chemical/physical phenomena at the atomic/nano level in real materials systems.
- **Department of Micro and Nanofabrication** - The Department of Micro and Nanofabrication explores both bottom-up and top-down approaches to the micro and nanofabrication aspects of materials, surfaces and devices, running a cleanroom with more 50 systems. Main research activities include: i) processes for MEMS/NEMS, sensors, microfluidics, graphene and thin film semiconductors, energy storage, conversion and adaptive optical devices, lithography and advanced packaging, rapid prototyping and cleanroom processes integration; ii) bottom-up catalysis, synthesis and research of materials, and nanofabrication and characterization of optoelectronic materials and devices in rigid and iii) flexible substrates, and incorporation of nanotechnology into thin film solar cells.

## Application Evaluation

All applications will be evaluated by a Selection Committee. Candidates are evaluated on multiple parameters, including but not limited to: research and technical expertise, scientific performance (quality and number of publications, citations, patents, contribution of the candidates to the field as appropriate to their career stage), quality of the RTD projects and alignment with INL research activities and international experience.

More detailed information can be found in the [Guide for Evaluators](#).

## Closing date

The closing date for applications for the INL Post-Doctoral Fellowship Programme is February 6<sup>th</sup>, 2018.

Incomplete applications or applications received after this date will not be evaluated.

## What we offer

At INL we offer people with talent and passion a unique opportunity to develop their personal and professional lives. This is why we offer the following competitive package:

- An initial two year employment contract as an INL Research Fellow. Selected Researchers who demonstrate top-level performance may be given an additional one-year employment contract and/or participate in forthcoming challenging opportunities at INL.
- Social benefits include: family allowance, child allowance, free nursery services on the INL campus (subject to availability), education fees for dependent children, private health insurance and travel allowances.
- Researchers will also benefit from the various social facilities available at INL.

- Access to state-of-the-art equipment and facilities.
- Multidisciplinary research environment.
- Collaboration opportunities with international academic and industrial partners.

To learn more about financial benefits visit the programme [website](#).

## **Selection of Candidate**

INL will publish the final list of the successful candidates on the programme website within 60 days of the closing of the call. Selected and non-selected candidates will be informed by e-mail.

## **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.

## **Helpdesk**

Applicants can receive support regarding applications to this programme by e-mail: [nanotrainingrowth@inl.int](mailto:nanotrainingrowth@inl.int)