

NANOTECHNOLOGY for a better health and a better life

***INL.** Your worldwide partner for science and innovation.*

Infoday MSCA - Opportunities for academic and non-academic institutions

Success Stories MSCA – COFUND

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Paula Galvão, CBSRO INL

COFUND – Main Features



**MSCA
COFUND**



**Doctoral
Programmes
(DP)**

**Fellowship
Programmes
(FP)**

Early Stage Researchers
(ESR)

Experienced Researchers (ER)

- Each single application must only address a DP or FP

BUT

- More than one application can be submitted
- (bearing in mind: **maximum € 10 Million per beneficiary** per call)

NanoTRAINforGrowth I– Details of the Programme

- Funding of postdoctoral INCOMING mobility based on employment/position instead of stipend
- Project duration: 01/2013 - 12/2017 (5 years)
- Overall budget;€ 3,347.000 M
60 % INL
40 % EU (FP7/Marie Curie/COFUND)
- Programme scope: 24 Fellowships in 4 Calls

NanoTRAINforGrowth II– Details of the Programme

- Project duration: 06/2016 - 05/2021 (5 years)
- Overall budget: € 3,398,400.00M
- Programme scope: 24 Fellowships in 4 Calls

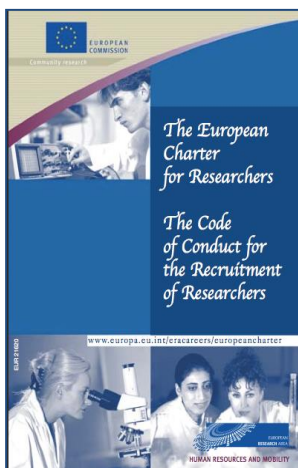


NanoTRAINforGrowth – Details of the Programme

- Duration of projects: **2** years;
- Programmes **encouraged to cover all research disciplines ("bottom-up")**;
- Calls **advertised and published at international level**;
- **Selection process** based on **openness, transparency, merit**, impartiality and equality;
- Measures to ensure **equal opportunities** for researchers.
- Researchers to comply with the **mobility rules of the MSCA**;
- No **limitations as to nationality, as well as origins** of researchers;

NanoTRAINforGrowth II – Details of the Programme

- Programmes shall promote **international, intersectoral and interdisciplinary** mobility, while providing **open recruitment** and **attractive working conditions**.
- Excellent **working conditions**: employment contracts, full social security etc.
- Career training: **complementary skills**



Principles set out in the **European Charter for Researchers** & the **Code of Conduct for the Recruitment of Researchers**

https://euraxess.ec.europa.eu/sites/default/files/am509774cee_en_e4.pdf

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Experience of previous COFUND proposal

COFUND: Marie Skłodowska-Curie Co-funding of regional, national and international programmes		
Excellence	Impact	Quality and efficiency of the implementation
Quality of the selection / recruitment process for the researchers (transparency, composition and organisation of selection committees, evaluation criteria, equal opportunities)	Enhancing the potential and future career perspectives of researchers; Strengthening human resources on regional, national or international level	Coherence, effectiveness and appropriateness of the work plan
Quality of the research options offered by the programme in terms of science, interdisciplinarity, intersectorality and level of transnational mobility	Aligning practices of participating organisations with the principles set out by the EU for human resources development in research and innovation	Appointment conditions of researchers
Quality of career guidance and training, including supervision arrangements, training in transferable skills	Quality of the proposed measures to exploit and disseminate the results	Competence of the participant to implement the programme
	Quality of the proposed measures to communicate the results to different target audiences	

Criterion 1. QUALITY OF THE SELECTION PROCESS FOR THE FELLOWS UNDER THE Criterion PROGRAMME (award)

Strengths:

- **Big efforts are made to promote the fellowship programme.**
- **The criteria for the selection of fellows, especially concerning the evaluation of the candidate's profile (CV) and the proposed project are described in detail and quantitatively.**
- **Easy application process through a digital Platform**
- **The applicants will have access to updated information on the progress of their application and a specific Helpdesk will further ease this process.**
- **Potential and actual conflicts of interest of the experts are handled properly.**
- **Ethical issues will be handled properly, with the participation of expert assessors on ethics during the selection process.**

Weaknesses:

- **2 months for eligibility check, evaluation and selection might be tight for the number of received applications;**
- **A starting date of the fellowship within the next 1 – 4 months after receiving the final appointment letter might create additional problems to the fellows.**
- **The criteria to select experts for the selection committees is not clear.**
- **The risks of the programme are not discussed (lack of the appropriate applicants).**

Criterion 2. IMPLEMENTATION - MANAGEMENT OF THE PROGRAMME

Strengths:

- Standard conditions under **an employment contract** will be offered to the fellows.
- **Appropriate technical facilities will be provided for the selected fellows.** The practical arrangements for the hosting of the fellows have been described well, in terms of office/lab space, access to appropriate equipment and material, personal development needs, immigration procedures (if necessary), etc.
- The estimated programme **budget is described in detail** and includes the requested COFUND contribution.
- **The management structure of the programme is well described** and the key individuals that will lead it have been identified and their responsibilities have been concretely described.

Weaknesses:

- **Measures to review the programme have not been presented in detail.**
- The fellows will be employed at the same institute that holds the fellowship programme. Since the **proposal does not include a formal description of the institute, its current status in terms of scientific output and total staff**, there is no objective figure of merit to judge if the proposed programme is appropriate in terms of achieving a strategic impact for the institute.
- Future development of the programme is presented too generally.

Criterion 3. RELEVANCE AND IMPACT TO “LIFE-LONG TRAINING AND CAREER DEVELOPMENT

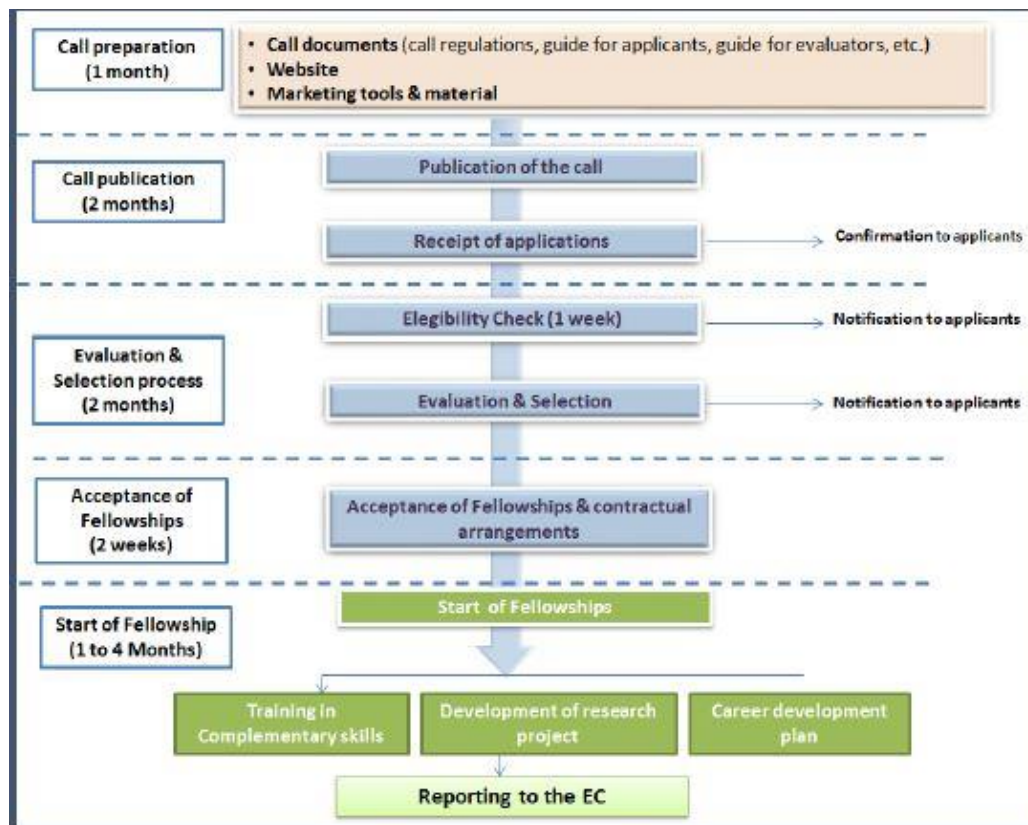
Strengths:

- The **transnational element of the programme** is taken care of in a good manner.
- The programme will **help the fellows to deepen their skills** within their discipline and within the general expertise framework at the hosting institute.
- The proposal allows the **researcher to freely choose the research topic.**
- The measures the programme takes to **ensure equal opportunities** and gender balance and career break opportunities.
- The proposal fits with the **general policy objectives of the ERA and the specific ERA goals** (contribute to long lasting international cooperation ...).

Weaknesses:

- The applicant institute is an international research centre; therefore a transnational element is inherent in the institute’s foundation. The proposal however **fails to describe its exact composition and the international character of its staff members.**
- The **post-scheme network support offered to maintain relationships** established during the fellowship is limited to the existence of a series of online communities and social networks. However we are developing an alumni programme at INL.

Fellowship applications are examined through a rigorous review process that includes consideration by a Selection Committee. The evaluation procedure of the NanoTRAINforGrowth Fellowship programme follows a four-stage process:



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(NanoTRAINforGrowth II)

1st Call – 4 Fellows Hired

2nd call – 6 Fellows Hired

3rd call – OPEN – (January 6th – February 6th)

The banner features a background image of a person's hands typing on a laptop keyboard. Overlaid on this is a circular graphic containing text. At the top left of the banner are the logos for INL NanoTRAIN for Growth II and INL. The main text in the circle reads: 'Call for applications >>', 'NanoTRAINforGrowth II', 'INL Post-Doctoral Fellowship Programme', and 'The closing date for applicants: February 6th, 2018'. Below this, a purple button contains the text 'Know more at: <https://ntgii.inl.int/>'. At the bottom right of the banner, there are logos for the European Union and the Horizon 2020 program.

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NanoTRAINforGrowth II – Website of the Programme



Meet our Fellows Space

FIRST CALL

April 2017



SARA ABALDE

Sara has recently joined INL to develop sensing platforms for liquid biopsy based on SERS detection and microdroplets. Sara's research efforts are focused at the integration of nanotechnology, SERS and microdroplets in microfluidics driven by her interest in biomedical research tools.



ASHOK PATEL

Ashok's research is focused on using food-grade ingredients to create novel structured systems including oleogels, foams, colloidal particles and complex emulsions to solve formulation issues in food product development.



LARA SAN EMETERIO

Lara started at INL as a NanoTRAINforGrowth fellow in the spintronics group, to work on spin wave excitation, propagation and detection using nanopillar magnetic tunnel junctions.



DAVID SORIANO

Within the NanoTRAINforGrowth II programme, David Soriano is involved on the study of defects in 2D materials, such as vacancies in hexagonal Boron Nitride (hBN) layers, as potential sources of single photon emitters (SPE).

A dedicated space for each fellow to:

- Describe their own profile, project and dissemination activities



HELLO! I'M SARA.

Sara has recently joined INL to develop sensing platforms for liquid biopsy based on SERS detection and microdroplets. Sara's research efforts are focused at the integration of nanotechnology, SERS and microdroplets in microfluidics driven by her interest in biomedical research tools.



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Dissemination Activities:

- Newsletters, outreach activities, events, participation in conferences and more..

NEWSLETTERS

NANOTRAINFORGROWTH II



NANOTRAINFORGROWTH II PROGRAMME

This programme aims to provide an opportunity for talented and motivated researchers (from all over the world and all nationalities) to carry out groundbreaking research projects at the International Iberian Nanotechnology Laboratory - INL. The NanoTRAINforGrowth II is co-funded by the European Union through the Marie Curie Action "Co-funding of regional, national and international programmes (COFUND)".

FIRST CALL

The first call brought talented researchers to INL that are now working in cutting-edge projects in the field of nanotechnology. After evaluating the applications submitted to the first call of the NanoTRAINforGrowth II INL Post-Doctoral Fellowship Programme, the INL has selected 4 candidates (Ashok Patel, Sara Abalde-Cela, Lara San Emeterio and David Santoni).

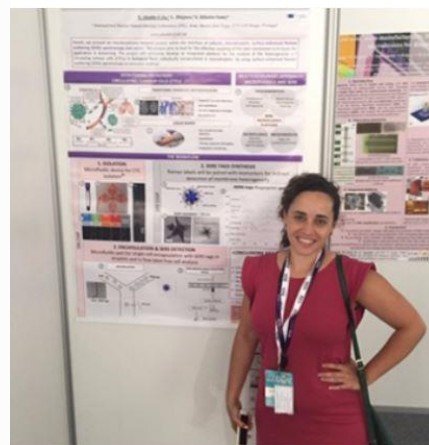
MEET OUR RESEARCHERS



Ashok Patel

Dr Ashok Patel aims to work on his ambitious project of developing complex colloidal particles that copy and deliver fat-binding agents to the intestine. It is his hypothesis that by controlling the dis-assembly of these particles in the intestine, the release of the fat-binding agents can be matched to different steps of fat digestion for an efficient multi-step binding that will eventually lead to an overall reduction in fat absorption.

Following the motto of INL that is "Creating value at the smallest scale to tackle challenges at the greatest scale", his project aims at exploring the feasibility of innovating at the colloidal scale to solve the global social issue of obesity.



Training to gain or improve “soft”/complementary skills

From the Lab to the Market
Porto Business School Executive Education

Overview

The programme, framed in an European project, was designed with the goal to allow the INL researchers to access basic management and entrepreneurship knowledge, in such a way a to enhance the viability of the results of their market researches.

The programme s meant for researchers from the Laboratory and it will have the total duration of 40 hours, divided into 5 plenary workshops.

Training Programme Structure



(*) All sessions will be delivered in English

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INL. Open to the world!

The worlds only **International** Institute for Nanotechnology.

INL Short facts:

- ***Rapid growth*** \approx ~~20~~ 220 passionate people from \approx ~~20~~ 30 countries
 - ***Unique research environment:*** 100 M Euro Investment & 47 000 dedicated sqms
 - ***INL IP Ventures***
 - ***INL StartUp Programme***
 - ***Integrated nano-incubator***
 - ***User Facility***
 - ***Representation:*** Israel, Brussels, Scandinavia, Shanghai, Austin, Boston, Hong Kong, UAE
 - ***INL Working Model:*** We work with the international community integrating the worldwide best solutions to commercial needs creating societal value!
- Ageing & Wellbeing, Mobility & Urbanization and Safe & Secure Society***

Welcome to INL.

Bringing radical innovations to the market.

Thank you for listening!

Paula Galvão,
Chief Business Administration
Officer, INL