

“EXPRESSION OF INTEREST” FOR HOSTING MARIE S. CURIE FELLOWS IN SPANISH INSTITUTIONS (CALL MSCA IF 2015)

1. Interested institution:

The Spanish National Research Council (CSIC) - C/ Serrano 117, 28006, Madrid (Spain)
www.csic.es

Materials Science Institut of Barcelona / Institut Ciencia de Materials de Barcelona (ICMAB)
Campus UAB, Bellaterra, Barcelona

2. Brief Description of the Institution

The Spanish National Research Council (CSIC) is the largest public institution dedicated to research in Spain and the third largest in Europe. Belonging to the Spanish Ministry of Economy and Competitiveness through the Secretary of State for Research, Development and Innovation, its main objective is to develop and promote research that will help bring about scientific and technological progress, and it is prepared to collaborate with Spanish and foreign entities in order to achieve this aim. It has a staff of more than 13,000 employees, among these about 3,300 are permanent researchers and about 4,300 are pre- and post-doctoral researchers. The CSIC has 70 fully own institutes or centers distributed throughout Spain. In addition, it has 53 Joint Research Units with universities or other research institutions. There is also a delegation in Brussels and Rome.

CSIC has considerable experience in both participating and managing R&D projects and training of research personnel. Under the 7th Framework Programme CSIC has signed approximately 700 actions (including 97 coordinated by CSIC and 47 ERC projects). Funding wise, CSIC is listed the 1st organization in Spain and the 5th in Europe in the 7th Framework Programme, with a total FP7 contribution of over 260 million euros. During the first calls of H2020, CSIC has had an intense participation in all programmes. It has been remarkable the participation in certain calls, such as ERC and Marie Curie, as well as in ICT, NMBP and Societal Challenges. In March 2015 CSIC has obtained 90 projects with a total financial contribution of 40 million euros.

3. Please tick the areas of research (as established in Marie Skłodowska Curie Actions)

- | | |
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| <input type="checkbox"/> Chemistry (CHE) | <input type="checkbox"/> Environmental Sciences and Geology (ENV) |
| <input type="checkbox"/> Social Sciences and Humanities (SOC) | <input checked="" type="checkbox"/> Life Sciences (LIF) |
| <input type="checkbox"/> Economic Sciences (ECO) | <input type="checkbox"/> Mathematics (MAT) |
| <input type="checkbox"/> Information Science and Engineering (ENG) | <input type="checkbox"/> Physics (PHY) |

4. Research / Project Description

The research will be in the area of Biomaterials. Therefore we are looking for a motivated person who will work at the interface of materials science and biology, since our main motivation is the evaluation of materials, specially nanoparticles, in biological environments.

Future materials systems developed for biotechnology could include a variety of metals that assemble, reconfigure, disassemble, and react specifically with the surrounding biological media. The ability to predict and control the reactivity of these systems in biologically relevant conditions, i.e., the degradation of the NPs, the release of unwanted products, and the interaction with biological tissues, would help to create safe materials that have near limitless applications.

Characterization of the in vitro and vivo behavior of nanomaterials aims to optimize their design, to determine their biological effects, and to validate their application. We will explore this evaluation in different systems: such as 3D cell cultures and in the model organism *Caenorhabditis elegans* (*C. elegans*).

We advocate for 3D biological environments to mimic more realistically the field of application of our nanoparticles, so being able to assess the engineered nanoparticles synthesized in simple, accurate and information-rich methodologies.

5. Who can apply?

At the deadline for the submission of proposals (10/09/2015), researchers (*):

- shall be in possession of a doctoral degree or have at least four years of full-time equivalent research experience.
- must not have resided or carried out their main activities in the country of Spain for more than 12 months in the 3 years immediately prior to the abovementioned deadline.

6. Contact person

Dr. Anna Laromaine

alaromaine@icmab.es

Institut Ciència de Materials de Barcelona

Campus UAB, Bellaterra, Barcelona

7. Applications: documents to be submitted and deadlines

- An updated CV- Deadline before 1th July 2015
- 3 names of reference people (please note at this stage do not ask for recommendation letter) - Deadline before 1th July 2015
- a motivation letter- Deadline before 1th July 2015
- 3 pdf files of the most relevant scientific contributions according to the candidate. - Deadline before 1th July 2015

Please note that:

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- Deadline of the next call for proposals for Marie Skłodowska – Curie Individual Fellowships is **September, 10th 2015**.
- Oficina Europea is only responsible for the display of the expressions of interests received by the institutions; further contact and information requests will take place directly between the host institutions and the interested researchers.

(*) Further details on the Call and additional eligibility criteria can be found at the [Participants' Portal](#)