

CONSORZIO INTERUNIVERSITARIO PER LO SVILUPPO DEI SISTEMI A GRANDE INTERFASE

CSGI
c/o Dipartimento di Chimica "Ugo Schiff"
Università degli Studi di Firenze



Direttore Prof. Piero Baglioni

CALL ID: CSGI-SI-13/2018

Open position for an early-stage researcher within the EU Project "SAMCAPS - Self-Assembled MicroCAPSules: Synthesis, Characterization, and Eco-friendly Application in Home Care Products"

"SAMCAPS - Self-Assembled MicroCAPSules: Synthesis, Characterization, and Eco-friendly Application in Home Care Products" (n. 814100) is a Marie Skłodowska Curie funded European Industrial Doctorate (EID) in the Horizon 2020 framework, with two participating partners, one from academia (CSGI – Center for Colloid and Surface Science) and one from industry (Procter&Gamble).

SAMCAPS is a high-quality research program that aims to train young professionals in the field of colloid and polymer science through the collaboration between top-level European academic and industrial entities. The goal of the project is to address the current need for bio-degradable materials and efficient consumer goods usage, by exploiting new eco-friendly materials and methods of encapsulation that will be applied in home- and beauty care consumer products where the targeted delivery of beneficial actives is required.

The fellow will have the possibility to work at a world-class scientific level in multidisciplinary and international teams, at the interface between the academic and the industrial world. CSGI will host the early-stage researcher at its premises at the University of Siena and will provide training as well as the necessary means for implementing project activities. Procter&Gamble will host and train the early-stage researcher for the application of the developed technology in consumer good products. A career development plan, for both the academic and industrial part will be established, and its implementation will be seamlessly supported.

The selected candidate will be enrolled in the Ph.D. programme at the University of Siena and will spend 18 months at the Procter & Gamble Services Company NV (Brussels, Belgium). The joint supervision of the fellow (from academic and non- academic sector) will be guaranteed.

Time period:

December 1st 2018 – November 31st 2021

Location:

University of Siena, Department of Biotechnology, Chemistry and Pharmacy, via Aldo Moro 53100, Siena and Procter & Gamble Services Company NV (Brussels, Belgium).

Job Requirements & Description:

CSGI and Procter & Gamble are looking for an early-stage researcher (ESR, i.e. in the first 4 years of her/his research career and without a doctoral degree). The candidate must hold a degree (Master's degree or equivalent) in Chemistry, Chemical Engineering, or Materials Science, and must possess a solid background in physical, analytical and synthetic chemistry. The ideal candidate should also possess basic knowledge in the chemistry of surfaces, polymers and colloids, including the main characterization techniques.

The project will focus on the development of amphiphilic polymers with tailored structures, able to respond to external stimuli and thus function on demand, to encapsulate and release the desired compounds in the

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target environment under the right stimuli. The trainee will work on amphiphilic graft copolymers, such as polyethylene glycol-graft-polyvinyl acetate (PEG-g-PVAc), and new amphiphilic block copolymer chemically modified or synthesized ex-novo to produce materials with optimal biodegradability and high mechanical resistance. Materials characterization will be performed by spectroscopic (FT-IR, NMR), spectrometric (ToF-SIMS), thermogravimetric (TGA) and rheological methods. Biodegradation will be studied as function of specific environmental conditions on the basis of foreseen applications.

According to the EU mobility rule, candidates MUST NOT have resided or carried out their main activity (work, studies, etc..) in Italy and Belgium for more than 12 months in the last 3 years.

CSGI and Procter & Gamble have an equal opportunities policy with respect to race, gender, religion or disability.

Type of contract:

Two contracts will be signed: a 18 months temporary contract signed by CSGI and a 18 months temporary contract signed by P&G.

In accordance with the MSCA regulations, the selected candidate will receive a monthly gross salary of Euro 3413,88 for the Italian contract and 3270,00 for the Belgium contract. In addition, she/he will receive a mobility allowance up to Euro 600 per month and a family allowance up to Euro 500 per month (if applicable). The salary will be subjected to tax according to national regulations.

All candidates must send:

1. a signed application letter specifying: surname and name, date of birth, address, e-mail and telephone number;
2. their curriculum vitae et studiorum including the coordinates of two contact persons;
3. Bachelor's Degree and Master's Degree certificates;
4. the list of all titles, documents and publications that can be relevant for the selection;

All applications must arrive by email **no later than September 30, 2018** to the following mail address: recruitment@csgi.unifi.it

Please report the following CALL ID in the subject of the email: **CSGI-SI-13/2018**

The application review will begin on October 1st, and prospective candidates will be contacted starting from this date. An interview by the evaluating committee might be requested, which can take place either face-to-face or via Skype.

The result of the selection will be posted on the CSGI official website http://www.csgi.unifi.it/index.php?option=com_content&view=article&id=28#menu

Personal data will be collected and handled according to the Italian privacy policy (D. Lgs. 30 June 2003, nr. 196).

Sesto F.no, August 7, 2018