

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-FI-16/2018

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. Procter&Gamble will host and train the early-stage researcher for the application of the developed technology in consumer good products. CSGI will host the early-stage researcher at its premises at the University of Florence and will provide training as well as the necessary means for implementing project activities. 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 Florence 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:

Procter & Gamble Services Company NV (Brussels, Belgium) and University of Florence, Department of Chemistry "Ugo Schiff", Sesto Fiorentino (Florence, Italy).

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 and analytical 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 testing the performance and life-time of capsules when deposited on various surfaces (e.g. textiles, skin and hair) by investigating properties such as stiffness, strength, release kinetics, and other key parameters that need to be carefully measured to improve the deposition of the capsules on surfaces. The

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ESR will be trained in several analytical techniques like confocal Raman spectroscopy to analyze the capsule surfaces and understand the chemistry at the surface of the capsule. Other characterization training will include techniques like Zeta potential measurement, surface energy measurement techniques via nano-indentation equipment, fluorescence spectroscopy, GCMS and TOF-SIMS.

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 P&G. and a 18 months temporary contract signed by CSGI.

In accordance with the MSCA regulations, the selected candidate will receive a monthly gross salary of Euro 3270,00 for the Belgium contract and Euro 3413,88 for the Italian 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 where 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-FI-16/2018

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