

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
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CALL ID: CSGI-CA-07/2017

Opening for a researcher within the EU Project "ICARUS, Innovative Coarsening-resistant Alloys with enhanced Radiation tolerance and Ultra-fine – grained Structure for aerospace application"

The Centre for Colloid and Surface Science (CSGI) – University of Cagliari is partner of the Project "*Innovative Coarsening-resistant Alloys with enhanced Radiation tolerance and Ultra-fine – grained Structure for aerospace application*" (n. 713514), financed by the European Programme Horizon 2020, call H2020-FETOPEN-2014-2015-RIA

CSGI offers a position as a researcher in the framework of the ICARUS project. The fellow will have the possibility to work at world – class scientific level in multidisciplinary and international teams.

Time period:

1 September 2017 – 31 August 2018.

Location:

University of Cagliari, Department of Mechanical, Chemical, and Materials Engineering in Via Marengo 3, 09123 Cagliari.

Job Requirements

CSGI is looking for a talented researcher with a Master Degree in Chemistry (or equivalent) and a Ph.D. in Chemical Sciences or Ph.D. in Earth Sciences (or equivalent) with the following expertise:

- Mechanical processing of powder by ball milling aimed at the mechanical alloying of metals, the fabrication of nanocomposites, the preparation of nanostructured materials, the activation of chemical transformations.
- Characterization of structural, microstructural, physical and chemical properties of bulk and nanostructured inorganic and organic solid phases by (i) quantitative X-ray diffraction, (ii) differential scanning calorimetry, differential thermal analysis, and thermogravimetric analysis (iii) scanning and transmission electron microscopy including preparation of samples by conventional polishing and focused ion beam, local structural and chemical mapping, image analysis, (iv) gas-physisorption according to the BET method.
- Practice of solution chemistry and electrochemistry, conventional chemical analysis, instrumental chemical analysis.
- Elements of solid-state chemical kinetics addressing the mechanical activation of solids, the formation of nanostructures, the strengthening of metals.
- Set-up and management of research laboratories.

Segreteria
Via della Lastruccia, 3
50019 Sesto Fiorentino (FI) – Italia
Codice fiscale e partita IVA: 04519240487

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Gross salary: up to EUR. 30.000 € for the time period above specified.

For more necessary information, please write to Prof. Francesco Delogu at segreteria@csgi.unifi.it

All candidates must send:

1. a signed application letter specifying: surname and name, date of birth, address, e-mail and telephone number;
2. the curriculum vitae et studiorum;
3. the degree certificate in free paper with the scores of each exam and final evaluation;
4. Ph.D. certificate in free paper;
5. the list of all titles and documents that can be relevant for the selection;
6. a copy of a personal I.D. (printed on both sides);

All applications must arrive by email no later than **17/07/2017** to the following mail address segreteria@csgi.unifi.it

Please report the CALL ID in the subject of the email.

A colloquium with the evaluating committee might be requested. The colloquium 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>
Personal data will be collected and handled according to the Italian privacy policy (D. Lgs. 30 June 2003, nr. 196).

Sesto F.no, 15.06.2017