

# 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. Emiliano Fratini

**CALL ID: CSGI-CA-13/2022**

The Center for Colloid and Surface Science (CSGI) has an open position for a researcher, with experience in Synthetic Organic Chemistry and Mechanochemistry.

The fellow will have the possibility to work at world-class scientific level in a multidisciplinary and international team, on the EU HORIZON-HLTH-2021-IND-07 project entitled:

“Innovative Mechanochemical Processes to synthesize ACTIVE pharmaceutical ingredients (IMPACTIVE)”

Time period:

May 1, 2023 – October 31, 2024

Location:

CSGI, Cagliari research unit – University of Cagliari, Department of Chemical and Geological Sciences, Cittadella Universitaria di Monserrato, 09042 Monserrato (CA), Italy

Job Requirements:

CSGI is looking for a highly motivated young researcher with a Ph.D. degree in Chemistry and able to fulfil the following requirements:

- multi-year experience in organic synthesis;
- proven expertise in the use of common analytical methods to detect, identify, characterize and quantify chemical compounds such as, e.g., GC-MS, NMR, HPLC;
- ability to identify and implement the best separation methods to isolate a product from a reaction mixture;
- proven research track record, e.g., publications in international peer-reviewed scientific journals and technical reports, in the synthesis and characterization of materials;
- proven lab skills in the chemistry of organic functional groups;
- robust expertise in the synthesis of most common heterocyclic scaffolds, e.g., pyridines, imidazoles, indoles;
- expertise in the development of green chemical processes
- experience in mechanochemistry (preferable, not mandatory);
- experience in transition metal catalysis (preferable, not mandatory).

The recruited person will:

- Actively participate in research, lab management and set-up of new experimental methodologies
- Perform the planned research activities, analyse data and write a monthly report
- Develop sustainable mechanochemical routes to value-added intermediates for the pharmaceutical industry

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- Synthesize active pharmaceutical ingredients
- Design green mechanochemical synthetic strategies alternative to solution-based procedures
- Actively participate in biweekly research meetings with the industrial partner

Gross salary: up to EUR. 27.000,00 €/year.

For more information, please contact Prof. Andrea Porcheddu (supervisor) ([porcheddu@unica.it](mailto:porcheddu@unica.it))  
Prof. Francesco Delogu (unit coordinator) ([francesco.delogu@unica.it](mailto:francesco.delogu@unica.it))

All applicants must send:

1. [This signed application letter](#);
2. Academic CV (including a list of publications, a list of courses and a list of talks given), description of research interests and research agenda;
3. Degree certificates;
4. List of all titles, documents and publications that can be relevant for the selection;
5. Contact details of -at least- two potential references
6. Copy of a personal I.D. (printed on both sides);

All applications must be sent by email to [recruitment@csgi.unifi.it](mailto:recruitment@csgi.unifi.it) **no later than March 31<sup>st</sup>, 2023 – 17:00 CET**. Please report the CALL ID ( CSGI-CA-13/2022) 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 telematic meeting.

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 GDPR- General Data Protection Regulation (EU) 2016/679.

Sesto F.no, October 21<sup>st</sup>, 2022