



Università
Ca' Foscari
Venezia

Marie Curie Post-doc Positions at Ca' Foscari University of Venice

“Expression of Interest” for hosting Marie Skłodowska-Curie Fellows – Call 2020

1. Interested institution (legal person):

Ca' Foscari University of Venice

2. Department/Centre:

Department of Environmental Sciences, Informatics and Statistics

[\(please add a short description of the Department/research group/Research Centre\)](#)

The Department of Environmental Sciences, Informatics and Statistics comprises various research areas such as biology and ecology, chemistry, environmental engineering, computer science, earth science and statistics.

Inside the computer science area, the Software and System Verification group is focused on the application of static analysis techniques to the verification of various aspects of software. During the last few years, the groups focused its efforts on the detection of security vulnerabilities and privacy leakages of object-oriented software, the system security of robotic systems, and the approximation of string values. The most recent research projects extended these efforts to the validation of blockchain smart contracts, and the analysis of machine learning algorithms.

3. Position, scientific requirements, topic, scientific panel:

Position:

Post-doc Position

Scientific requirements:

PhD in Computer Science

The fellow should have experience in abstract interpretation, static analysis, software engineering, formal methods, programming languages.

The fellow should have leadership abilities and international experience in research and/or teaching.

[\(please fill in this section according to your research interests\)](#)

Topic(s):

We are interested in Marie Skłodowska-Curie research proposals covering the following topics:

- 1) Applications of static analysis techniques to detect security vulnerabilities and privacy leakages in mainstream programming languages
- 2) Theoretical and/or practical application of abstract interpretation-based techniques to the static analysis of novel scenarios such as the verification of smart contracts in blockchain systems, the detection of security vulnerabilities in IoT software, and the analysis of the robustness of machine learning algorithms.

Scientific Panel:

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

For further details, see the list of descriptors: https://ec.europa.eu/research/participants/data/ref/h2020/other/guides_for_applicants/h2020-guide-appl-msca-if-2018-20_en.pdf

4. Contact person:

Prof. Pietro Ferrara

Email: pietro.ferrara@unive.it



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5. Deadline and proposal drafting:

Next MSCA-IF Call deadline is **September 9th, 2020**.

Drafting a Marie Curie proposal requires some time to be accurately revised and shared with the supervisor and the research advisors. Please contact us as soon as possible and **no later than May 31st, 2020**.

6. Further information:

Marie Skłodowska-Curie Individual Fellowships – IF: <http://www.unive.it/pag/28536/>

Meet our fellows: <http://www.unive.it/pag/30982/>

Ca' Foscari International Research Office, Individual Funding Unit – mariecurie@unive.it