

# PostDoc position at the Euler Institute, Faculty of Informatics at USI Università della Svizzera italiana

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Università della Svizzera italiana (USI) is a young and lively university, a hub of opportunity open to the world where students are offered a quality interdisciplinary education in which they can be fully engaged and take center stage, and where our researchers can count on having the space to freely pursue their initiative.

Established in 1996, USI is in constant evolution, always taking on new challenges while remaining true to its three guiding principles: quality, openness and responsibility.

The Euler Institute is USI's central node for interdisciplinary research and the connection between exact sciences and life sciences. By fostering interdisciplinary cooperation in Life Sciences, Medicine, Physics, Mathematics and Quantitative Methods, Euler provides the basis for truly interdisciplinary research in Ticino.

The Institute invites applications for a research and teaching PostDoc position (100%, 2 years).

## **The Project**

The position is financed by the SURE (Sustainable and REsilient energy for Switzerland) project of the first SWEET call of the Swiss Federal Office of Energy. The SURE consortium (ETHZ, EPFL, USI, SUPSI, UniBE, UniGE, ZHAW, E3-MODELLING S.A. and further partners) is combining research and knowledge from different areas to develop new data- and model-based scenarios. These scenarios are intended to point out transition pathways to restructure the energy system, particularly taking into account disruptive events.

## **The PostDoc Position**

The PostDoc candidate will work together with Prof. Krause and Prof. Multerer (<http://usi.to/jky> and <http://usi.to/3ps>). The successful candidate will be offered the possibility to work in a dynamic research team and in a multidisciplinary and international scientific environment.

On the teaching side, the candidate will work as teaching assistant in courses at either bachelor or master level, helping in the preparation of teaching materials and tutoring students.

The PostDoc candidate is expected to present papers at scientific conferences and produce publications in high-ranking journals.

### **Candidates' profile**

Ideal candidates should satisfy the following requirements:

- PhD degree in Informatics or Mathematics within the field of Uncertainty Quantification or related.
- Strong mathematical background and expertise in multilevel and multifidelity methods.
- Experience in high performance computing and the simulation of physical phenomena.
- Programming knowledge in C/C++ and a scripting language like Matlab or Python.

### **General terms**

Workplace is USI Università della Svizzera italiana, located in Lugano, Switzerland.

Availability to travel to other parts of Switzerland and abroad (for purposes of collaboration and research) is required.

Starting date is 1. September 2021 (at the earliest). However, the position will be kept open until a suitable candidate has been found.

### **The Application**

Applications should contain: (1) a letter in which the applicants describe their research interests and the motivation to apply, (2) a complete CV, (3) copies of relevant diplomas, certificates as well as the full transcript of records, (4) a complete list of publications with details on the candidate's contributions, (5) contact information of 2 scientific references.

Please send your application in electronic form or requests for further information to Michael Multerer ([michael.multerer@usi.ch](mailto:michael.multerer@usi.ch)).

Applications received before 1. August 2021 will be given priority. However, applications will be received until the position is filled.

As an institution that values diversity, USI particularly encourages applications from women and from all individuals from underrepresented groups.

Lugano, 25. June 2021