

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

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 cooperations in Life Sciences, Medicine, Physics, Mathematics, and Quantitative Methods, Euler provides the basis for truly interdisciplinary research in Ticino. The Euler Institute connects artificial intelligence, scientific computing and mathematics to medicine, biology, life sciences, and natural sciences and aims at integrating these activities for the Italian speaking part of Switzerland.

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

The project

We are looking for a postdoc candidate to work in the areas of machine learning, and protein modeling and design. Research objectives include the development and implementation of deep generative models for protein design with applications in the fields of antibody therapeutics and biosensors design. The research will be carried out at the Euler Institute of the Università della Svizzera italiana (USI), in Lugano, Switzerland.

The PostDoc Position

The PostDoc candidate will work under the scientific supervision of Prof. Thomas Lemmin. The successful candidate will be offered the possibility to work in a dynamic research team and in a multidisciplinary and international scientific environment.

The PostDoc candidate will collaborate to the development of the institute research agenda.

Tasks encompass both research and teaching responsibilities. The successful candidate will have shared responsibilities in the design and conduction of research projects in the field of protein modeling and design.

On the teaching side, she/he 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

You are a highly motivated individual capable of grasping and applying new concepts, working individually, and collaborating with multidisciplinary research teams

- PhD degree ideally in the fields of Deep Learning, or Computational Biology or Chemistry.
- Excellent command of English, both written and spoken.
- A strong desire for research and publishing at top venues.
- Ability to work independently and to plan and direct own work.
- Ability to work in team and autonomy in scheduling research steps. Interest for teaching and tutoring students and availability to collaborate with colleagues (engage in scientific dialogue, listen and think critically) are required.

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 September 1, 2021. 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) summary of a scientific achievement, e.g. contribution in a scientific paper, organization of a workshop (max. 1 page), (3) a complete CV, (4) copies of relevant diplomas, certificates as well as the full transcript of records, (5) a complete list of publications with details on the candidate's contributions, (6) minimum 2 and up to 4 reference letters.

Please send your application in electronic form or requests for further information to Thomas Lemmin (thomas.lemmin@inf.ethz.ch).

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

Lugano, June 20, 2021