

Open Position

Postdoctoral Researcher in Micromechanical Design

The specialty of Instant-Lab is the creation of new mechanisms featuring kinematic and technological innovation at the millimeter and centimeter scales. The scientific approach is inspired from mechanical design in fields such as robotics, medical technology, aerospace, and horology. Current projects are largely based on flexure-based mechanisms applied to biomedical instrumentation, space mechanisms, and mechanical watchmaking, these fields being quite close, both technologically and in their industrial fabric.

The laboratory is seeking a postdoctoral researcher to strengthen the scientific, engineering and creative skills of the team. Emphasis will be given on fundamental scientific questions as well as their engineering applications, so candidates should be prepared to tackle conceptual as well as technical challenges. A strong theoretical background in mechanics will be required as well as practical experience in the design, realization and testing of physical models. Partnership with industry is foreseen.

The responsibilities of this position include: Supervision of B.Sc., M.Sc. and Ph.D. students; Scientific expertise on the core research project of the laboratory; Fundraising through elaboration of research proposals in collaboration with the head of the laboratory; Development of new research activities; Close scientific follow-up of ongoing research project run in collaboration with industry.

Candidates should have a Ph.D. degree in Microengineering, Mechanical Engineering or Physics.

Candidates should send their CV, letter of motivation, reference letters and, if possible, a summary of their previous projects to lysiane.bourquin@epfl.ch.

Further information about the laboratory is available at the website: <http://instantlab.epfl.ch>.