PhD positions - Experimental unsteady fluid and vortex dynamics
EPFL

Job Title	PhD positions - Experimental unsteady fluid and vortex dynamics
Department	Mechanical Engineering https://www.epfl.ch/labs/unfold/
Institution	EPFL Lausanne, Vaud, Switzerland
Date Posted	Jul. 15, 2025
Application Deadline	Open until filled
Position Start Date	Available Immediately
Job Categories	Graduate Student
Academic Field(s)	Sciences - General
Apply Online Here	https://careers.epfl.ch/job/Lausanne-PhD-positions-Experimental-unsteady-fluid-and-vortex-dynamics/1163119355/
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Job Description

The Unsteady Flow Diagnostics Laboratory (UNFoLD) led by Prof. Karen Mulleners at EPFL in Lausanne is looking for multiple PhD students to join the group in the fall of 2025 or early 2026.

The UNFoLD lab specialises in the experimental measurements, analysis, and modelling of unsteady vortex-dominated flow phenomena, with applications in bio-inspired propulsion, wind turbine rotor blade aerodynamics, gust interactions, and fluid-structure interactions. The research focuses on unfolding the origin and development of unsteady flow separation and vortex formation. The lab has built a reputation for carefully designed and precisely controlled *experiments*, high quality *temporally and spatially resolved* field experiments using particle image velocimetry combined with synchronised

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measurements of the technically relevant quantities, such as aerodynamic forces or power output, *exploratory data analyses* to bridge the gap between our observations and understanding of the development and interaction of vortices, and the technically relevant quantities.

Several open PhD postions are available for fully funded projects on:

- Flow separation on three-dimensional wings
- Fluid-structure interactions of flapping flags
- (Bio-inspired) unsteady vortex formation and interaction

More information about the lab and the ongoing and past projects can be found here: https://www.epfl.ch/labs/unfold/

EEO/AA Policy

EPFL, the Swiss Federal Institute of Technology in Lausanne, is one of the most dynamic university campuses in Europe and ranks among the top 20 universities worldwide. The EPFL employs more than 6,500 people supporting the three main missions of the institutions: education, research and innovation. The EPFL campus offers an exceptional working environment at the heart of a community of more than 18,500 people, including over 14,000 students and 4,000 researchers from more than 120 different countries.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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