



UNIL | Université de Lausanne
Faculté des géosciences et de l'environnement
Décanat - 4608
bâtiment Géopolis
CH-1015 Lausanne

Assistant Professor (tenure track) in 4D digital field and structural geology

Introduction

The University of Lausanne is a higher teaching and research institution composed of seven faculties where approximately 17,000 students and nearly 5,000 collaborators, professors, and researchers work and study. Ideally situated along the Lake of Geneva, near Lausanne's city center, its campus brings together over 120 nationalities.

Presentation

The Faculty of Geosciences and the Environment (FGSE) of the University of Lausanne invites applications for a professorship in **4D digital field and structural geology**, to be based in the Institute of Earth Sciences (ISTE).

We are looking for a candidate capable of leveraging remote sensing technologies (e.g., UAV mapping, structure from motion, LiDAR, hyperspectral and thermal cameras, inSAR, airborne imagery, geophysics) to advance field-focused structural geology research. We are particularly interested in research aiming at understanding the formation of mountains, their transformations and rock deformation through space and time (4D) by linking surface observations with, for example, deep structural constraints offered by geophysics, structural geology concepts or process-based modelling. The ideal candidate has a strong collaborative spirit and is willing to develop scientific collaborations over multiple domains of expertise within the Earth sciences. Knowledge about geology of the Alps and/or future research plans for this region is desirable. We are also interested in candidates addressing societal challenges related to the environment, resources or infrastructure. A willingness to contribute to structural geology teaching including field-based courses is expected.

Information

Appointment will be at the Assistant Professor level (tenure track). However, exceptionally, we will consider outstanding candidates for direct appointment at the Associate Professor level, particularly if this corresponds with our equal opportunity objectives.

Starting date: *1st of August, 2022* (or to be agreed upon)

Contract length: 2 years renewable twice (6 years). Tenure and promotion to the rank of Associate Professor expected after 5-6 years, leading to further contracts renewable every 6 years.

Activity rate: 100 %

Workplace: University of Lausanne (Géopolis building)

Responsibilities

The successful candidate is expected to *i)* develop a competitive research program within the Institute of Earth Sciences, *ii)* teach courses in the Bachelor of Geosciences and Environment, and Master programs taught by the FGSE, and, *iii)* supervise bachelor, master and doctoral students.

Qualifications

Candidates must demonstrate a capacity to undertake high quality research, to obtain research funding, and to publish in peer-reviewed international research journals. A demonstrated potential for teaching and for supervising master and doctoral theses is required.

A good command of French and English is preferable. If French is not the native language, teaching ability in French has to be acquired within two years of the appointment.

Décanat
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What the position offers

The Faculty of Geosciences and the Environment (FGSE) of the University of Lausanne was created in 2003 and offers state-of-the-art facilities (e.g., LiDAR instruments, UAVs and software to process SfM, GB-Insar, thermal and hyperspectral cameras, GPU and CPU-based computing facilities, geophysical equipment, a multitude of laboratory facilities including those listed here: <https://unil.ch/iste/en/home/menuinst/laboratoires.html>), incentives for projects, and excellent working conditions. It consists of three research institutes (Earth Sciences, Geography and Sustainability, and Earth Surface Dynamics) and a School that manages teaching. The FGSE specifically promotes interdisciplinary research and teaching, within and between the social and natural sciences. We offer a competitive start-up package and long-term support in terms of an internally funded post-doc. The University has many measures in place to facilitate the life for parents/guardians of young children, including on campus childcare (<https://www.unil.ch/familles/en/home/menuinst/parents-and-children.html>).

Contact for further information

Other useful information is available on the websites of the Faculty (www.unil.ch/gse) and the Institute of Earth Sciences (www.unil.ch/iste).

For further information, contact the Chair of the selection committee for this position: Niklas Linde, Dean of the FGSE (niklas.linde@unil.ch).

Applications

Application deadline: 15th of December, 2021 (23:59 Swiss time GMT+1)

The PDF application in English must be split into several files not larger than 9.9 MB and can only be submitted through this website.

<https://bit.ly/2XOa7zz>

Or www.unil.ch/central/en/home.html -> Careers at UNIL -> Emplois -> Postes ouverts -> English -> structural geology (or ad 18207)

and should include:

- . A cover letter explaining the reasons for applying (max. 1 page);
- . a full Curriculum Vitae, including previous employment and university training, the date and title of the doctoral thesis, publications, conference presentations / invited lectures, classes taught, and student research supervised;
- . a research statement, describing past major achievements and the research the candidate intends to develop (max. 4 pages);
- . a teaching statement, describing the candidate's teaching approach, intentions for teaching and his or her potential contribution to our teaching programs (max. 2 pages);
- . list and links to the three most significant publications and a statement on the personal contribution to each;
- . the names and contact information of three to five referees.

Additional information

The University of Lausanne seeks to promote an equitable representation of men and women among its staff and strongly encourages applications from women. The FGSE's strategy regarding equal opportunity, specifically with respect to the recruitment of professors, is described in Appendix C of the FGSE's action plan in favor of equal opportunities 2021-2024. Candidates are invited to consult this document at the following website: <https://www.unil.ch/gse/fr/home/menuinst/faculte/commissions/egalite.html>

The Faculty of Geosciences and Environment of the University of Lausanne adheres to the DORA agreement and follows its guidelines in the evaluation of applications. (<https://sfdora.org/>)