Assistant Professor, full-time with tenure track, in low temperature geochemistry

Introduction

The University of Lausanne is a research and higher education institution comprised of seven faculties where approximately 14,300 students and nearly 3,900 collaborators, professors, and researchers work and study. Ideally situated on Lake Geneva, near Lausanne's city center, its campus brings together over 120 nationalities.

Presentation

The Faculty of Geoscience and the Environment of the University of Lausanne wishes to fill the post of

Assistant Professor, full-time with tenure track, in low temperature geochemistry

within its Institute of Earth Sciences.

This post is aimed at a researcher in natural sciences within the field of Earth Sciences. The Faculty wishes to prioritise the engagement of an academic scientist, working in the field of low temperature geochemistry, and with interest in the use of in situ microanalysis. In order to support the development of our national experimental facility SwissSIMS, leadership of UNIL's secondary ion microprobe facility is expected in due course.

Complementary Information

The appointment is expected to be made at the rank of Assistant Professor, tenure track (possibility of tenure and promotion to Associate Professor within 5-6 years), normally of someone within 9 years of completing their PhD (part time working and career breaks excluded). An appointment at the rank of Associate or Full Professor may be considered for more senior candidates with an exceptional track record who would advance the Faculty's objectives in relation to equal opportunities between men and women and the Faculty’s strategy regarding the recruitment of professors (see www.unil.ch/gse under “La Faculté -- L’égalité à la FGSE”, point 2.2 of the action plan).

Start date: 1st August 2018 (or to be discussed)
**Contract duration:** 6 years with tenure as Associate Professor possible after 5 to 6 years

**Activity rate:** 100%

**Location:** University of Lausanne, Mouline, Géopolis building.

**Your activities**

The appointee will develop a program of internationally competitive research in the field of low temperature geochemistry including eventual use of our SwissSIMS facility. The successful candidate will be expected to attract external research funds from the Swiss National Science Foundation and European and International funding programs and to publish in scientific journals of the highest international quality in their research field. They will supervise PhD students. With an appointment at Assistant Professor, teaching responsibilities are limited at the beginning, but contributions to our Earth Sciences Masters program, jointly taught with the University of Geneva (https://www.unil.ch/geoleman/en/home.html), and the direction of Masters projects is expected.

**Your profile**

In addition to having significant experience in state of the art techniques and in situ microanalysis, and a commitment to eventual use of our secondary ion microprobe facility, we are searching for a person with:

- a focus on mineral reaction kinetics, rates of geochemical exchange, mechanisms of water-rock interaction, alteration of fluid pathways, mechanisms of precipitation/dissolution reactions, crystallization in pore space or spatial correlation of geochemical compositions; and/or
- experience of applications of their research to CO2 sequestration, geochemical aspects of energy production from the Earth’s resources, diagenesis, energy and waste storage or near surface mineral recrystallization processes.

The appointee will demonstrate the potential: to publish in scientific journals in the field of the position; to lead research projects in their specialisation, including obtaining funds; and to communicate their research to other researchers and students.

Excellent capabilities in oral and written English are necessary. For non-French speaking candidates, two years of transition to teaching in French is allowed.

**What the position offers you**
The Faculty of Geosciences and Environment is a dynamic faculty founded in 2003 offering state-of-the-art equipment, incentives for projects and excellent working conditions. It is divided into three research institutes (Earth Surface Processes, Earth Sciences, and Geography and Sustainability) that collaborate at the intersection of bio-physico-chemical sciences and social sciences (see www.unil.ch/gse).

Research undertaken in the Institute of Earth Sciences has the objective of improving our understanding of the physical, chemical and biological processes that have shaped the evolution of our planet though time. The Institute has outstanding analytical facilities that sustain world leading research and teaching. The Institute houses CASA (the Centre for Advanced Surface Analysis), a UNIL-EPFL platform for in situ microanalysis using SIMs.

The primary research foci of the Institute include the geodynamics of mountain chains and the physical processes related to these, the geochemistry of the Earth’s mantle and crust, the evolution of life, of the oceans and of palaeoclimate through the study of sedimentary rocks, monitoring and modelling geophysical processes at the surface, and geological risks linked to changing climate and erosion. There is a strong collaboration with the University of Geneva through the Léman School of Earth Sciences (https://www.unil.ch/geoleman/en/home.html).

For additional information

Additional information on the Faculty and the Institute of Earth Sciences can be obtained at the sites www.unil.ch/gse and www.unil.ch/iste.

Further information regarding the position can be obtained from Professor Stuart Lane, President of the Appointment Panel for this position, Deputy Dean of the Faculty and Professor in the Institute of Earth Surface Dynamics.

Application details

Application deadline: 24th November 2017 (23:59 Swiss time GMT +1)

Only the applications that have been submitted in word or pdf format using this site will be considered.


or http://www.unil.ch/central/en/home.html, -> Jobs -> job ad nr 12213
They must contain:

- A letter of motivation;
- A full curriculum vitae, giving details of University training and relevant courses followed, the date of submission of the PhD thesis, a list of publications and conference presentations, a list of courses taught and details of work supervised at University level;
- A list of research projects within which the candidate has participated, giving details of the role of the candidate in the project, the project duration and the amount of funding awarded to the project;
- A short document that details the applicant’s research plans (maximum 2 pages);
- Copies of up to five publications that the candidate deems to be the most important to date;
- A list of three to five potential referees (whom the Faculty may contact).

Remarks

Wanting to promote equal representation of women and men among its staff, the University encourages applications from women in particular.