

The Environmental Microbiology Laboratory (EML) in the School of Architecture, Civil and Environmental Engineering, EPFL, is seeking

A post-doctoral researcher

to investigate uranium reduction and fractionation by a variety of microorganisms

Requirements:

- educational and research background in environmental microbiology
- experience with geomicrobiology and isotope biogeochemistry
- a strong chemistry background is an asset
- computer skills: Word, Excel, Powerpoint
- language: fluent English
- self-motivation, scientific curiosity, critical thinking and rigor in experimental work
- good communication skills and ability to work as part of an international team
- enthusiasm, willingness to learn, good organizational skills

Work description :

The project deals with isotopic fractionation of uranium by microorganisms and the use of this biological signature in combination with other isotopic tools to identify specific microbial metabolic groups. The work will involve cultivation of a variety of organisms, protein purification, and running of microcosm experiments.

Tasks:

- perform anaerobic bacterial cultivation
- develop approaches for multi-proxy characterization of metabolism
- purify proteins and probe their activity
- perform first-class scientific research
- participate in general laboratory tasks
- write publications
- attend and present at international conferences

We are offering :

- an opportunity to develop a scientific career in the context of an interdisciplinary project
- an opportunity to learn high-end techniques and approach
- excellent research conditions and competitive remuneration
- a multi-cultural and stimulating scientific environment

Start date : June 1st, 2017

for further information, please contact Professor Rizlan Bernier-Latmani via e-mail:
rizlan.bernier-latmani@epfl.ch

Applicants should submit a letter of interest, a curriculum vitae, university diplomas and contact information for three references by email to rizlan.bernier-latmani@epfl.ch