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

**A post-doctoral researcher**

**to investigate microbial processes relating to nuclear waste disposal**

**Requirements:**

- educational and research background in microbiology and/or chemistry
- some experience in bioinformatics is an asset
- computer skills: Word, Excel, Powerpoint, some experience with at least one programming language
- language: fluent English
- self-motivation, scientific curiosity, critical thinking and rigor in experiment 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 investigating the role of indigenous microbes in producing and consuming gas (H₂, CH₄) as well as consuming organic compounds released by nuclear waste in geological repositories. This work is of practical importance for nuclear waste disposal. The work will include a combination of laboratory experiments and investigations in situ (in the Mt Terri underground laboratory).

**Tasks:**

- perform experiments at the Mt Terri underground rock laboratory
- extract DNA and sequence metagenome and analyse metaproteome
- use bioinformatic tools to reconstruct full genomes
- Probe the release of organic compounds by irradiation of ion-exchange resins
- analyse borehole water for various chemical components
- participate in general laboratory tasks
- perform first-class scientific research
- write publications
- attend and present at international conferences

**We are offering :**

- an opportunity to develop a scientific career in environmental microbiology and chemistry
- an opportunity to learn high-end techniques and approaches
- the opportunity to build a scientific network in the field of microbiology research
- excellent research conditions and competitive remuneration
- a multi-cultural and stimulating scientific environment

**Application deadline :** ASAP

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 the names of three reference by email to rizlan.bernier-latmani@epfl.ch