Faculty Position in Hydraulic Infrastructures and Water Systems at the Ecole polytechnique fédérale de Lausanne (EPFL)

Our society will be experiencing a paradigm shift in how energy and water resources for energy are managed. This context creates new research opportunities in hydraulic infrastructures and water systems. EPFL's School of Architecture, Civil and Environmental Engineering (ENAC) is seeking out talented people who will be able to provide innovative solutions in this field and work at the interface between hydraulics, energy, water economy, climate change, material engineering, and system optimization. In this context, we invite applications for a Faculty position at the Assistant Tenure Track level (in exceptional cases, appointment at the Associate or Full Professor level may be considered).

The successful candidate will have a proven capability to contribute significantly to teaching and scholarship in the broad field of hydraulic infrastructures and engineered water systems in relation to hydraulic energy harvesting.

The main topics of interest include:
- Effects of climate change on hydraulic infrastructures and water systems.
- Design and optimization of hydraulic infrastructures and their life cycle.
- Data science of hydraulic infrastructures and water systems (smart monitoring, digital technologies, etc.).
- Resilience and vulnerability of water systems.

Related topics, such as energy, hydropower, dams and reservoirs, flood protection, safety, or water supply, are also relevant.

EPFL hosts exceptional experimental and computational research facilities, including a fully equipped research laboratory in hydraulics and water infrastructure. Therefore, experts in experimental methods and physical models are encouraged to apply.

The successful candidate will have a deep fundamental research background including knowledge transfer in hydraulic infrastructures and water resources, and civil engineering in general.

As a faculty member of the Civil Engineering Section, he/she will excel in undergraduate and graduate teaching and supervise doctoral students.

With its main campus located in Lausanne and its developing antennae in neighbouring cantons in Switzerland, EPFL is a growing and well-funded institution fostering excellence and diversity. It is well equipped with experimental and computational infrastructure, and offers a fertile environment for research collaboration between different disciplines. The EPFL environment is multilingual and multicultural, with English serving as a common interface. EPFL offers internationally competitive start-up resources, salaries, and benefits as well as exceptional experimental and computational facilities. It is committed to increasing the diversity of its faculty, and strongly encourages women to apply.

The following documents are requested in PDF format: cover letter including a statement of motivation, curriculum vitae including explicit mention of career breaks, publications list, concise statements of research and teaching interests (3-5 pages) as well as the names and addresses, including emails, of at least three references for junior positions or five references for senior positions (may be contacted at a later stage). Applications should be uploaded to the EPFL recruitment web site:

https://facultyrecruiting.epfl.ch/position/10977283

Formal evaluation of the applications will begin on August 15th, 2018 and the search will continue until the position is filled.

Further enquiries should be made to:
Professor Michel Bierlaire
Chair of the Search Committee
e-mail: searchhydraulics@epfl.ch

For additional information on EPFL, please consult:
http://www.epfl.ch or http://enac.epfl.ch

EPFL is an equal opportunity employer and a family friendly university.