To strengthen our team, we are looking for a

**Postdoctoral Fellow in Physical Chemistry**

LMER is a research group of EPFL / Chemical Engineering focusing on the science and technology of renewable energy storage. We are located in the Building of EPFL Valais/Wallis in Sion, Switzerland. Our research focuses on materials for energy storage, i.e. hydrogen and the synthesis of hydrocarbons. Therefore, we investigate the interaction of gases with the surface and the volume of bulk- and nano-materials in different media. The open Postdoctoral position is on the research of the hydrogen interaction with metals and nano-materials.

**Your Tasks**
- Investigate hydrides at extreme conditions (pressure, temperature) in view of the use of Metal hydrides for hydrogen compression.
- Synthesize carbon based nano-materials and investigate the interaction of the materials with hydrogen.
- Investigate the catalytic combustion of hydrogen and develop combustion devices for low and high temperature heat.
- Develop new methods for the synthesis of metallic catalysts for the hydrogen combustion.
- Publish papers and book chapters and supervise the PhD students working on hydrogen.

**Your Profile**
- You have a PhD degree in physical chemistry or chemical engineering or a related field from a top university
- You are a top-level PhD student aiming to reach the group of world leading scientist
- You have a deep expertise in several of the following fields: surface chemistry, metallurgy, catalysis and thermodynamics
- You have a good level of hands-on experience, a big interest in science and a proven talent to bring scientific achievements to the application.
- You are ready to work hard and commit yourself to the global competition in science.
- You are able to handle responsibility and you grow on your challenges and achievements
- You are fluent in English and French or German.

**Our offer**
- Modern equipment in a new laboratory, high level office space, infrastructure and salary.
- A highly dynamic, modern top-level scientific environment
- Exposure to multi-disciplinary research projects from basic research to applications
- Interesting work conditions and flexibility for excellent career development.
- Collaboration with industrial partners and opportunities to market results from the research

**Activity rate:** 100%

**Place of work:** EPFL Valais/Wallis, Sion

**Start date:** to be defined

**Contacts:** For complementary information, please contact Ms. Ivana SUTER per e-mail: ivana.suter@epfl.ch

**Sending of applications:** We look forward to receiving your applications by email to lmer@epfl.ch with a motivation letter, a complete curriculum vitae and copies of certificates and two reference letters. **To be mentioned in your e-mail subject:** Application Postdoc Position in LMER