To strengthen our team, we are looking for a

PhD Student in Chemistry or Chemical Engineering

LMER is a research group of EPFL / Chemical Engineering focusing on the science and technology of renewable energy storage. We are located in the Energypolis Buildings of EPFL Valais/Wallis in Sion. 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 PhD position is on the synthesis of nano-materials with a cluster source and the investigation of the surfaces and the interaction with gases by means of AFM, Kelvin probe and XPS.

Your Tasks
- Installation and commission of a new near ambient pressure X-ray photoelectron spectrometer (NAP-XPS) with an atomic force microscope and a Kelvin probe.
- Installation and commission of a new cluster source
- Synthesis and characterization of metallic clusters
- Investigation of the interaction of gases with the surfaces and metallic clusters

Your Profile
- You have a degree in chemical engineering, physical chemistry or a related field.
- You are a top-level student aiming to reach the group of world leading scientist.
- You are highly motivated and focus driven person able to solve a variety of scientific and technical challenges.
- You are independent and at the same time an excellent team worker.
- You are ready to work beyond the contract and commit yourself to the global competition in science.
- You are able to handle responsibility and you grow on your challenges and achievements.

Our offer
- Modern equipment in a brand new laboratory
- A highly dynamic, modern top-level scientific environment
- Exposure to multi-disciplinary research projects from basic research to applications
- Interesting work conditions and flexibility
- Our limit is only the impossible.

Activity rate: 100%

Place of work: EPFL Valais/Wallis, Sion

Start date: immediately or to be defined

Contacts: For complementary information, please contact Prof. Dr. Andreas Züttel per e-mail: lmer@epfl.ch

Sending of applications: We look forward to receiving your offers, by email only to lmer@epfl.ch with a motivation letter, a curriculum vitae, and copies of certificates and references.

To be mentioned in your e-mail subject: Application PhD Elchem. CO2 red. LMER position

Email not containing this mention will not be taken into account