

## **Postdoctoral Position in Solid Oxide Electrolyzer Stack (Electrochemical Engineering)**

**In the lab of Prof. Xile Hu at EPFL (Swiss Federal Institute of Technology Lausanne; Ecole Polytechnique Fédérale de Lausanne)**

Website: <https://lsci.epfl.ch>

(Availability: Immediately to First half of 2025).

We have an opening for a postdoctoral position in the development of solid oxide electrolyzer stack for high-temperature CO<sub>2</sub> electroreduction. The project aims to achieve stable performance at industry-relevant current densities within a stack configuration, e.g., 1000 h of operation at 1 A/cm<sup>2</sup> and 1 kW of power output. To do that, we will need to: (i) synthesis and optimize home-made catalysts in large quantities (e.g., 100 g); (ii) fabricate and scale up the cell in large sizes (e.g., 100 cm<sup>2</sup>); (iii) develop SOEC stacks for CO<sub>2</sub> electroreduction at large power outputs (e.g., 1 kW).

The successful candidate should have a Ph.D in chemical engineering or related fields. Knowledge and experience in fabrication and operation of SOEC stack are preferred. The postdoc will work in a small team that researches on various aspects on SOEC science and engineering. Strong communication and team-work skills are required.

The position is initially for one-year. There is possibility to extend the position for one more year pending the progress and mutual agreements.

**For all applications, please send your candidature to Prof. Hu via [xilehu@gmail.com](mailto:xilehu@gmail.com).** Please include a CV, research interest, and names of two reference providers. In case of a large volume of applications, we can only reply to those who will be further considered for Zoom or onsite interviews. In this case if you do not hear from me within 2 weeks of initial application, please assume that you application is declined. Note that applications that do not meet the requirements stated above (e.g., necessary academic background) will not be replied.