

We are looking for a

PhD Student

Advanced iron-zeolites for sustainable fuels

The work place for this project will be the Paul Scherrer Institute (PSI), where the project will be conducted in collaboration of the Bioenergy and Catalysis Laboratory and the Operando X-ray Spectroscopy group. You will be enrolled as PhD student in the doctoral program of EPFL, from which you will receive the PhD title under supervision of Prof. Oliver Kröcher.

Your tasks

- You work will be focused on tailored iron-zeolites for the synthesis of sustainable chemicals.
- You will decipher structure-function relationships of these catalysts by means of in situ/operando spectroscopic methods in the laboratory as well as at synchrotron research facilities.
- To complement the experimental work and get more insight in the overall reaction mechanism you will perform theoretical calculations.

Your profile

- You have a Master degree in physical chemistry or a related field.
- You have acquired first experience in catalysis, spectroscopy or DFT.
- You have a good command of written and spoken English.

We offer

Our institution is based on an interdisciplinary, innovative and dynamic collaboration. You will profit from a systematic training on the job, in addition to personal development possibilities and our pronounced vocational training culture.

Please apply online through this link: <https://www.psi.ch/en/pa/job-opportunities/58639-phd-student>.

For further information, please contact Dr. Maarten Nachtegaal, email: maarten.nachtegaal@psi.ch, Tel +41 56 310 30 56, or Prof. Dr. Oliver Kröcher, email: oliver.kroeche@psi.ch, Tel +41 79 851 44 96.