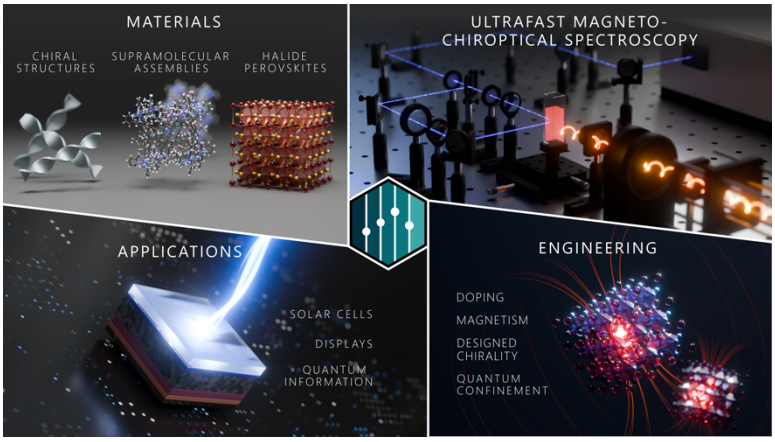
Professor Sascha Feldmann
Laboratory for Energy Materials
École Polytechnique Fédérale de Lausanne

Postdoc Position in Ultrafast Spectroscopy of Nanocrystals



The Laboratory for Energy Materials combines ultrafast magneto-chiroptical spectroscopy and materials chemistry to transform the way we produce and consume energy as a society. For this, we explore the concept of symmetry breaking in novel soft semiconductors and nanomaterials to control charge, spin and light with these printable materials. We work on uncovering the design rules to enable the next generation of cheap, efficient and flexible solar cells & ultra-bright displays, and unlock entirely new applications in quantum information technology. For more information, please check out www.feldmannlab.com.
Our international, diverse team features chemists, physicists, materials scientists, electrical engineers and computer scientists alike, to tackle the biggest fundamental and applied research questions together.

We offer:

- an internationally competitive salary (current rates here)
- world-class, brand-new synthesis labs & laser labs incl. some spectroscopy techniques, which are unique to our lab (full list here)
- living around the Swiss Alps, known for some of the highest quality of life worldwide
- a team that is warm, welcoming, social and fun to work with

Mandatory skills required:

- a PhD with **basic experience in ultrafast spectroscopy & experience in nanocrystal synthesis** *or* **extensive experience in ultrafast spectroscopy**
- team spirit: the desire to share your experience with others in the group, to mentor younger group members and develop your leadership skills as a postdoc, and never to be afraid of seeking help and learn from your teammates
- excellent spoken and written English language skills and the desire to apply for funding

A plus would be:

- experience with magneto-optical measurements; work on magnetic materials
- experience with polarization spectroscopy; work on chiral materials
- experience with optoelectronic devices, *e.g.* involving small molecules, polymers, nanocrystals, halide perovskites, etc., for LEDs, lasers, solar cells, etc.

FELDMANNLAB

Please apply directly *via* email to sascha.feldmann@epfl.ch using the subject line "*Postdoc application – Your Name*". Your application will only be considered, if you attach as a single pdf-document:
A brief statement of motivation (max. 1 page), your CV, incl. a full list of publications, grades, scholarships, prizes, and the contact details of 2 - 3 references that are prepared to be contacted. Applications will be considered until the position is filled. Earliest start date: August 2025.