

Master's Thesis in Materials Chemistry/Spectroscopy/Optoelectronics

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.

Your detailed research topic (e.g. on chirality, solar, light emission, spin dynamics, quantum tech, or technique development) will be determined based on *your* personal interests together with *you*.

We offer:

- 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:

- enrollment in a Physics, Chemistry, Materials Science or related degree program
- team spirit: the desire to share your experience with others in the group, and never to be afraid of seeking help and learn from your teammates
- excellent spoken and written English language skills, and excellent grades

A plus would be:

- initial experience with working in a laser lab
- initial experience with working in a synthesis lab
- initial experience with working in a device fabrication lab



Please apply directly *via* email to sascha.feldmann@epfl.ch using the subject line "*Master's thesis 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 grades, scholarships, prizes, publications if relevant, and the contact details of at least 1 academic reference prepared to be contacted.

Funding for living costs must be provided by a scholarship or other means.

