PH.D. POSITIONS IN TIME-RESOLVED ELECTRON MICROSCOPY

Time-resolved Electron Microscopy combines the spatial resolution of electron microscopes with the time resolutions of modern laser systems, opening up exciting opportunities to observe the (ultra)fast dynamics of nanoscale objects and gain new insights into nanoscale processes.

We are interested in studying a wide range of processes, from (ultra)fast phase transitions to nanoscale fluid dynamics. In particular, we have recently received an ERC grant to implement new methods to directly observe the dynamics of proteins. Another aspect of our work focuses on the development of instrumentation.

We are seeking highly motivated new members for our team. We are looking for someone curious and driven who has fun trying out new things. A background in Electron Microscopy, (ultrafast) lasers, instrument design, nanotechnology, or anything related would be great. But really anybody with good ideas and plenty of enthusiasm is highly welcome. Ultrafast Electron Microscopy is still a fairly young and rapidly developing field that offers exciting opportunities to try out something new.

Take a look at our website (lnd.epfl.ch), and do not hesitate to drop me an e-mail if you are interested (ulrich.lorenz@epfl.ch).

Some technical details:
Candidates for Ph.D. positions should hold a Master's degree in Chemistry, Physics, or a related field (in exceptional cases, a Bachelor’s degree will also be accepted). Good proficiency in English is required (French is a plus, but not necessary). Moreover, the candidate must be accepted by the doctoral school in Physics (http://phd.epfl.ch/EDPY) or Chemistry (http://phd.epfl.ch/EDCH).

Contact: Prof. Ulrich Lorenz, ulrich.lorenz@epfl.ch, +41 21 693 31 11