



## PhD Student Position in Ultrafast Spectroscopy of Solar Cells

at the Ecole Polytechnique Fédérale de Lausanne ([EPFL](#))

**Earliest start date January 1<sup>st</sup>, 2012**

### The research

This position is part of the Swiss NSF-funded project "[Conjugated Donor-Acceptor Copolymers: Understanding Their Optoelectronic Functioning in Organic Solar Cells](#)". The aim of the research is to relate the photophysical properties of conjugated polymers (as measured by ultrafast spectroscopy) to photocurrent generation in polymer-based photovoltaic devices. The thesis will be supervised by Dr. [Natalie Banerji](#) and will be co-directed by Prof. [Jacques-Edouard Moser](#), head of the [Photochemical Dynamics Group](#). The project benefits from numerous collaborations with groups in the same institute, within the [NCCR-MUST](#) national network and worldwide.

### Your profile

We are seeking an outstanding and highly motivated candidate with a Master's or equivalent degree in chemistry, physics or photonics. Preference will be given to candidates with some experience in ultrafast laser spectroscopy, photochemistry and/or organic solar cell characterization. The ability to work in an interdisciplinary environment is required. You will use and develop experimental methods to measure the dynamics of ultrafast photochemical reaction on working solar cells on the femtosecond and nanosecond time scale. In parallel, you will set up an apparatus to investigate photocurrent generation in solar cells and simplified devices.

### Please provide

- A curriculum vitae
- A letter of motivation

### The position also requires acceptance:

- in the Doctoral Program of Chemistry and Chemical Engineering of EPFL, for which you may file an application simultaneously at: <http://phd.epfl.ch/edch>. Contact: Ms. Anne-Lene Odegaard, [annelene.odegaard@epfl.ch](mailto:annelene.odegaard@epfl.ch)
- or in the Doctoral Program of Photonics of EPFL. <http://edpo.epfl.ch>

### Contact:

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