

PhD Position (Spectroscopy of OPVs)

at the University of Bern, Switzerland

Earliest start date May 1st, 2024

The Research

We search for a **PhD Researcher** to complete the multidisciplinary research team of Prof. Natalie Banerji at the Department of Chemistry and Biochemistry of the University of Bern. The global research goal is to understand fundamental material properties (light-matter interactions, electron transfer processes, charge transport, structure) of organic/hybrid semiconductors, with applications in new generation solar cells, transistors and (biological) sensors. In particular, the aim of the PhD research will be to apply ultrafast spectroscopic techniques to organic solar cells.

The objective of this PhD work is to investigate organic semiconductors (conjugated polymers, non-fullerene acceptors...) by ultrafast spectroscopy, in order to understand their light-matter interactions. This will be applied to organic photovoltaics (OPVs) and possibly photocatalytic systems.

Your Profile

We are seeking an outstanding and highly motivated candidate with a Master's or equivalent degree in chemistry or physics. Preference will be given to candidates with some experience in ultrafast laser spectroscopy, photochemistry and/or organic electronic devices. The candidate should have interest/skills in using optical setups, data analysis and programming. He/she should have an independent and solution-driven work attitude, and we generally enjoy group members with an open personality, and excellent communication/social skills. The candidate will be integrated in an international community of collaborators and will be requested to travel to other groups, as well as to attend workshops and conferences.

We Offer

A 4-year PhD position with attractive employment conditions. You will join an enthusiastic international research group, participate in exciting projects, enjoy excellent research facilities, and receive attractive employment conditions. The project benefits from numerous collaborations with renowned groups in the same institute, in Switzerland and at international level.

Please Provide (deadline March 31st 2024)

- A curriculum vitae
- A letter of motivation

By e-mail to Natalie.banerji@unibe.ch (with Subject: "PhD_YourName").