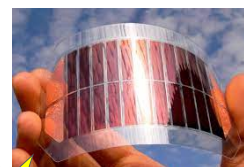
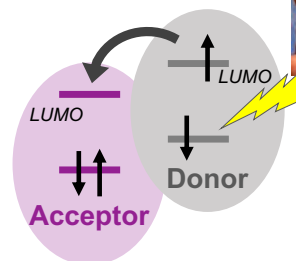


PhD Position in Solar Cell Photophysics

at the University of Bern, Switzerland

Earliest start date March 1st, 2025



The Research

We search for a **PhD Researcher** to complete the research team of Prof. Natalie Banerji, as part of the SNSF project: “Charge Generation and Conductivity in Complex Organic Materials”. Organic Photovoltaic (OPV) devices have reached 20% solar energy conversion efficiency, based on the development of novel non-fullerene acceptors (NFAs). However, the mechanisms of charge generation are not well understood.

The objective of this PhD project is to investigate different OPV blends, neat NFA films, and model donor-acceptor composites using a combination of device characterization and ultrafast spectroscopy (transient absorption, time-resolved terahertz spectroscopy). A deep understanding of how light is converted to photocurrent will be gained.

Your Profile

We are seeking an outstanding and highly motivated candidate with interest in Physical Chemistry and Spectroscopy. Preference will be given to candidates with some experience in ultrafast laser spectroscopy, photochemistry and/or organic electronic devices. The candidate will use/build optical setups, carry out data analysis, and needs to know some programming. They 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 conferences and carry out research stays in other groups. Therefore, excellent English skills are required.

We Offer

You will join an enthusiastic 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 Switzerland and at international level.

Please Provide (by 31st January 2025)

- A curriculum vitae
- A letter of motivation

By e-mail to natalie.banerji@unibe.ch with Subject ‘Name_PhD’