



UNIVERSITÄT
BAYREUTH

PhD position available

„ Nanomorphology: characterisation,
homogeneity and stability of printed
solar cells “

processing

x-ray characterization

structure – function relationships

As one of Germany's youngest universities, the University of Bayreuth values academic freedom, scientific progress, and social responsibility. It offers an excellent infrastructure in the vibrant research field of soft matter with key labs offering latest high-end preparation and characterization tools. The Herzig Group is part of the Physics Department and focuses on dynamics and structure formation in thin film systems.

The above position is offered within the DFG Research Unit “[Printed & Stable Organic Photovoltaics from Non-fullerene Acceptors – POPULAR](http://popular-printed-photovoltaics.de)” (FOR5387) (<http://popular-printed-photovoltaics.de>), a collaborative project between several universities. The research of FOR5387 will focus on the fabrication and investigation of printed efficient organic solar cells. In order to understand and further develop this class of photovoltaic elements from a fundamental perspective. The research group takes a strongly interdisciplinary approach, bringing together researchers from chemistry and materials science, as well as physics and mathematics, with print technology.

The PhD project addresses the systematic manipulation of the nanomorphology and nanostructure of organic photovoltaic thin films using x-ray scattering at in-house and large scale facilities.

For this position we seek a candidate with the following qualifications and traits:

- Very good university degree (M.Sc. or equivalent) with strong Physics background
- Laboratory skills in sample preparation and systematic characterization
- Programming and data visualization skills
- Ability to interpret data and improve experimentation
- Experience in hardware development of advantage
- Interest in structure formation mechanisms on the nanoscale
- Strong motivation to independently conduct research in an interdisciplinary setting
- Excellent verbal and written communication skills in the English language
- Motivation letter demonstrating in what way you fulfill the requested qualifications and traits as well as your reasons for application (max. 2 pages)
- Letter of recommendation from the supervisor of the master thesis (or similar)

Please send your application using the reference »FOR5387-P5« and including the required documents (motivation letter, CV, Master/diploma certificate and transcript of grades, letter of recommendation from the supervisor of your master thesis and, if available, a link to your Master's or diploma thesis) electronically as a single PDF file before 31/01/2023 eva.herzig@uni-bayreuth.de. Further information on our research can be found on www.herzig.uni-bayreuth.de.