

Job vacancy No. 153 - 2021

The Leibniz Institute of Polymer Research Dresden is a non-university research institute and a member of the Leibniz Association. It has gained world-wide reputation for its application-oriented basic research on new polymer materials for future technologies, e.g. in the fields of energy, mobility, health, sustainability, and communication, and it supports the transfer of research results into application. The research work is carried out on the basis of state-of-the-art technical equipment in interdisciplinary cooperation between the five institutes of the IPF and embedded in numerous national and international cooperations. The IPF promotes young scientists and is certified as a family-friendly employer according to the Audit berufundfamilie®. The institute currently employs around 500 persons. Further information at www.ipfdd.de.

Along these lines, the research group ThieleLab works on a radically new approach for polymer material design, rethinking additive manufacturing on both material and process level in an ERC Starting Grant project. Here, the research group offers a

PhD position (m/f/d) on developing polymer material processing strategies

The ERC project 3DPartForm plans to address the current lack of additive manufacturing to provide multifunctional, stimuli-responsive materials by exploring a novel material design strategy that includes processing and assembling individual polymer building blocks with an intrinsic set of functions and properties into true 4D polymer multimaterials. The PhD position is devoted to develop, construct and apply processing platforms for these building block in close collaboration with other project members. It will be of particular interest that these building blocks can be later assembled into larger hierarchical structures that are not simply static, but able to guide, process and manipulate information based on light, electric charges or diffusing molecules.

To tackle these challenges, **the successful candidate is trained in chemistry, materials science or process engineering, hands-on experience in machine construction and engineering is a plus.**

The position is starting January 01, 2022 and is limited for 3 years.

Salary: According to German pay grade TV-L EG 13, 65%

The IPF Dresden strives for gender equality and diversity in all fields. Applications by people with severe disabilities will be given preference if they are equally qualified. Moreover, as the IPF would like to raise the proportion of women in fields where they are underrepresented, women in particular are invited to apply.

The personal data collected by the IPF relating to your application, as well as the evaluation thereof shall be processed exclusively for purposes of the application process on the basis of contractual measures under Art. 6 (1b) GDPR. These data shall not be transferred to third parties. Recipients shall comprise the employees responsible, the Works Council as well as, where applicable, the representative body for disabled employees and the equal opportunities officers of the IPF. Your application details provided to us shall be deleted by us 6 months after the end of the application process, i.e. either after the job advertised has been filled, or after we have decided not to fill the vacancy after all. For questions under data protection law and for exercising your rights, please contact: d.atenschutz@ipfdd.de (data protection officer). You have the right to complain to the supervisory authority. Expenses for the interview participation will not be refunded.

The desire to path new ways in how polymer materials are made, to work across disciplines and discuss results with collaborators from other fields is essential. If you are motivated by these challenges, please submit your record of accomplishment with research interests, full CV, a detailed description of hands-on training in experimental and characterization tools and methods, and contact information of two references to otto-susanne@ipfdd.de. **Don't forget to indicate the number of the Job vacancy.**

For further information please contact Dr. Thiele: thiele@ipfdd.de

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