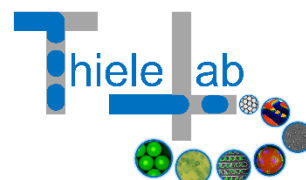




HR EXCELLENCE IN RESEARCH



## **Leibniz Institute of Polymer Research Dresden (IPF) Research Group ThieleLab**

Synthetic polymers are key components in tailor-made, functional materials for a vast range of applications, e.g., construction, electronics, textiles, nutrition, cosmetics, and medicine. Yet, exploring their full potential is often limited by a notable lack of strategies for efficient and targeted functionalization of well-established polymers. On this account, in a joint approach, we will design synthetic polymers (IPF) and introduce functional groups in the polymer backbone *via* cell-free bio-catalysis based on pre-screened, tailored enzymes (TU Dresden). The combination of abiological synthesis and biological functionalization of polymers will foster interdisciplinary exchange between life sciences and material sciences, and turn towards a new direction in polymer research. For that, we offer a

### **PhD position (m/f/d) on Tailor-made synthetic polymers and hydrogel precursors**

The position is part of a newly launched interdisciplinary research project funded by the Volkswagen Foundation (“Change of Course – Exploring New Research Territories between the Life Sciences and Science or Engineering”). **An academic background in chemistry is essential as much as experience in and interest for:**

- **Advanced polymer synthesis** (e.g., living anionic polymerization)
- **Polymer characterization** (NMR, GPC, HPLC, MALDI-TOF)

The desire to work across disciplines and discuss/present results with our collaborator from TU Dresden (Molecular Biotechnology) being part of a joint PhD program is essential. If you are motivated by these challenges, please submit your excellent record of accomplishment with research interests, full CV, a detailed description of experience in experimental and characterization methods, and contact information of two references to [thiele@ipfdd.de](mailto:thiele@ipfdd.de). We especially encourage women to apply. Disabled applicants with equal qualification will be given preferential consideration.

**For more information:** [thielelab.com](http://thielelab.com)

**Starting date:** ASAP

**Duration:** 3 years

**Salary:** According to German pay grade TV-L EG 13 (26 hrs per week)