



Leibniz-Institut für Polymerforschung Dresden e. V.
HR Department

Job advertisement No. 005 / 2018

At the Institute of Physical Chemistry and Polymer Physics (Division Nanostructured Materials), research group Polymer Micro(bio)reactors / ThieleLab - *subject to the financial allocation* -

PhD position (m/f):

Multi-material design for micro-stereolithography for cell biology and cell-free biotechnology

We are part of the **DFG Graduate School 1865**, an interdisciplinary network of research groups from TU Dresden and Leibniz IPF Dresden developing novel hydrogel-based microsystems. Here, the ThieleLab (<https://thielelab.com>) focuses on the design of multifunctional polymer materials as experimental platform for processes and functions in biotechnology and cell biology.

Work task:

The PhD position is devoted to develop switchable 4D materials by additive manufacturing. In a holistic approach, the candidate will synthesize tailored resins, process these by novel 3D-printing tools to yield complex polymer structures („**From resins to components**“). Yearly summer schools organized by the GRK will deepen the candidate's expertise in bio- and material sciences as well as engineering.

Suitable candidates with a master degree in chemistry, engineering (or similar) are skilled in:

- (Photo-)polymer synthesis
- Additive manufacturing based on stereolithography (e.g. Envisiontec P4 Mini, Cerafab 7500, Asiga Pico2)

Experience in AutoCAD and LabVIEW as well as COMSOL Multiphysics is a plus. It is expected that the applicant shows excellent communication skills in English - German is an asset.

Starting date: 01.04.2018

Duration: 31.03.2021

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

Professional questions about this position can be addressed to:
Mr. Dr. Julian Thiele
thiele@ipfdd.de

Please send your CV, a copy of degrees and scores, recommendation letters and a brief statement why you would like to apply to this particular job offer to the Department of Human Resources (with the Number 005-2018):

Leibniz-Institut für Polymerforschung Dresden e.V.
Mrs. Susanne Otto
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