

This position is funded by the
Carl Zeiss Foundation



Multifunctional porous polymer materials for 3D printing

Supervised by Dr. Pavel A. Levkin

The Cluster of Excellence [3D Matter Made to Order](#) (3DMM2O) combines the competencies of two Universities of Excellence to advance 3D Additive Manufacturing to the next level. The goal is to break current barriers of scale, precision and speed to unleash the true potential of the technology.

The Carl Zeiss Foundation funds a [scholarship program](#), supporting doctoral researchers during the preparation of their thesis.

Project Description

This Carl Zeiss fellowship funds a PhD project in the Levkin group (www.levkingroup.com). The project will include: **a. development of novel polymer-based “inks” for 3D printing of multifunctional materials; b. surface and materials characterization; c. various applications of micro-nano structured 3D printed objects including tissue engineering (in collaboration), superhydrophobicity and special wettability.** The project is interdisciplinary and will require collaborations with chemists, physicists and biologists.

Funding

The scholarship provides funding for 3 years to cover maintenance and additional funding for research travel expenses and research materials. The current rate is 17.616€/year.

Requirements

- Degree in **Chemistry, Chemical or Biological Engineering, Materials Science or Physical Chemistry**
- Ability and motivation to work on **interdisciplinary projects**
- Qualification: **within top 5-10%**

Qualified women are strongly encouraged to apply. Disabled persons with equivalent aptitude will be favored.

For further **questions** about the project, you can contact pavel.levkin@kit.edu

Please go to our application portal: <https://functionalmaterials.applicationportal.org/home.html> The application period is open until position is filled. We will start reviewing applications immediately.

3D Matter Made to Order (3DMM2O)

Cluster of Excellence of the Karlsruhe Institute of Technology (KIT) & Heidelberg University
www.3DMM2O.de

