Job posting

Type of position
☑ scientific
☐ administrative

Target group
☑ graduates
☐ post docs
☐ other

Title
Doctoral Researcher (f/m/d): "Multifunctional porous polymer materials for 3D printing"

Institution
Cluster of Excellence 3D Matter Made to Order (3DMM2O), Karlsruhe Institute of Technology

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.

Position
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.

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.

Responsibilities

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%
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.

For further questions about the project, you can contact Dr. Pavel Levkin (pavel.levkin@kit.edu)