Job posting

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Title
Doctoral Researcher (f/m/d): "µiniaturization of 3D Printed Optoelectronics"

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 group of Dr. Gerardo Hernández-Sosa. The integration of printed electronic devices in miniaturized complex hybrid electronic systems will require the design of 3D device architectures at the microscale. The project consists in fabricating and characterizing thin film electronic devices by printing technology on the basis of functional materials that combine processability and optoelectronic functionality.

The Carl Zeiss Foundation funds a scholarship program, supporting doctoral researchers during the preparation of their thesis.

The scholarship provides funding for 3 years to national and international students to cover maintenance and additional funding for research travel expenses and research materials. The current rate is 17.616,00€ / annum.

Responsibilities

Requirements
- Degree in Engineering, Material Science, Physics or Chemistry
- Excellent Academic Record
- Experience in thin film characterization or solution process fabrication of optoelectronic devices is desirable.
- Excellent verbal and written English proficiency is a requirement.
- Experience with printing technology and patterning techniques is a plus.

**Application procedure (deadline etc.)**

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.

**Contact**

For further questions about the project, you can contact Dr. Gerardo Hernández-Sosa (gerardo.sosa@kit.edu)