This position is funded by the Carl Zeiss Foundation

**Topic: 3D Printed Optoelectronic Devices**

**Supervised by Dr. Dr. Gerardo Hernández-Sosa** (link)

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.

**Funding**

The scholarship provides funding for 3 years to national and international students to cover living expenses. The current rate is 17,616,00€/annum. Additional funding for research travel expenses and research materials will be granted on top.

**Project**

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 based on functional materials that combine processaibility by printing techniques and optoelectronic functionality.

**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.

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

For further questions about the project you can contact: gerardo.sosa@kit.edu

Please go to our application portal: https://functionalmaterials.applicationportal.org/home.html

The Abstract (max. 350 words) in the application portal should be about your research interests. The application period is open until position is filled. We will start reviewing applications immediately.