



The **INM – Leibniz Institute for New Materials** in Saarbrücken, Germany, is an internationally leading center for materials research, a scientific partner to national and international research institutions, and a provider of research and development for companies throughout the world. The INM is an institute of the Leibniz Association and has about 250 employees.

INM's research group **Structure Formation** investigates how multiscale materials can be formed from molecules and nanoparticles such that they combine multiple functionalities and can be curtailed for emerging applications. In the new project **BROADCAST (Biomimetic Robots autonomously driven by Dielectric elastomers)** funded by DFG (German Research Foundation), we invite applications for a

PHD STUDENT (M/F/D)

on new conductive composites for soft robotics with adapted multiscale structures

starting on July 1st 2022 (with some flexibility).

Your tasks

- Prepare and systematically vary the composition, structure, and properties of flexible, stretchable, and conductive materials for soft robotics.
- Characterize of the structure and properties using INM's broad range of techniques with the support of experts.
- Closely cooperate with our project partners that design and build robots.
- Document and present your results at national and international conferences and in publications.

Your profile

- Master's degree in materials science, physics, chemistry, electrical engineering, or a related field.
- Interest and possibly experience in composite or hybrid materials, particle suspensions, or electronics.
- Previous experience with SEM, FIB, SAXS, and other characterization techniques is beneficial.
- Very good communication and writing skills and thorough command of the English language. German language skills are beneficial but no required.

You will work...

- on scientifically interesting and technically relevant challenges in a motivated research group that collaborates with leading researchers,
- receive reliable institutional support to perform high-quality research and to present and publish your research results,
- in an interdisciplinary and international institute with excellent infrastructure,
- at the heart of the Greater Region D/F/L/B.

Interested? We are looking forward to receiving your application (CV, publication list, motivation letter, at least one reference) **by April 30, 2022**. Please send it via e-mail (single pdf file < 5 MB) to Prof. Dr. Tobias Kraus

E-mail: tobias.kraus@leibniz-inm.de • Reference: "PhD: BROADCAST"

The INM is an equal-opportunity employer with a certified family-friendly policy. We promote professional opportunities for women and strongly encourage them to apply. Severely disabled applicants with equal qualification and aptitude will be given preferential consideration.



CONTACT

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