

POSTDOCTORAL FELLOW POSITION: SCALE-BRIDGING COLLOIDAL STRUCTURE FORMATION

The INM – Leibniz Institute for New Materials in Saarbrücken, Germany, is an internationally leading center for materials research. We focus on surface and interface phenomena and their exploitation in the development of innovative materials and structures. The INM is a scientific partner to national and international research institutions and a provider of research and development for companies throughout the world. The INM has about 250 employees and is an institute of the Leibniz Association.

The Structure Formation Group at INM studies how the molecular structure of particles and particle's shells their colloidal stability and self-assembly in liquid dispersions and the properties of materials prepared using them. Recent research explained the temperature-dependent stability of alkyl-stabilized nanoparticles by molecular transitions, elucidates the role of molecular connectivity in metal-polythiophene hybrids on their electrical conductivity, and provided a model for the stability of ultrathin nanowires as a function of the organic shell. Scattering methods, in particular Small-Angle X-ray Scattering, static and dynamic light scattering, and spectroscopy for molecular structure analysis are important tools of the group.

We are seeking a physical chemist, physicist, or material scientist with a thorough understanding of colloidal science, experience in scattering methods, and interest in their application for materials. The successful candidate will hold a postdoc position at the INM and can, depending on abilities and performance, take a leading role in the sub-group working on colloidal fundamentals. The institute supports steps of young researchers towards a more independent role, for example through the acquisition of grants.

Commitment to excellence in science, good communications skills, and a thorough command of the English language both in scientific discussion and in the preparation of manuscripts are indispensable. You will work in an interdisciplinary team with a positive and welcoming atmosphere, and we expect productivity and the will to collaborate. The groups' expertise and its excellent infrastructure will enable you to do high-quality research. INM's industrial activities will bring you in contact with commercial users and scientists from other fields of research.

Typical postdoc positions extend for two to three years. We would appreciate a starting date at the end of 2018 or beginning of 2019. Salary and working hours are in accordance with the German state public service salary scale (E13 TV-L) and the accordant social benefits.

INM is an equal-opportunity employer with a certified family-friendly policy. We promote the professional opportunities of women and strongly encourage them to apply. Full time jobs can be generally divided.

Contact

Please send your application via e-mail to the attention of Prof. Tobias Kraus including a detailed CV and at least two references along with a motivation letter not later than October 31, 2018. The attachment should be a single pdf-file <5 MB: tobias.kraus@leibniz-inm.de

Reference: "PostDoc Position: Hybrid Electronic Inks"