

POSTDOC OR SCIENTIFIC CO-WORKER

New materials are the drivers of new technologies. INM combines the two worlds of multidisciplinary scientific research and material oriented technology transfer under one roof. Chemistry, physics, biology, materials science, and engineering interact in close cooperation and at high level. An essential focus of our work is the transfer of biological principles to the design of new materials, structures and surfaces. Our results create and improve flexible displays and intelligent grippers, high-performance batteries and efficient solar cells or implants for personalized therapies and regenerative medicine. The INM is an institute of the Leibniz Association and employs around 260 people.

For our Program Division *Nano Cell Interactions* we are seeking to fill an open position for a scientific co-worker or postdoc with a degree in

CHEMISTRY OR MATERIALS SCIENCE

or a related science field.

The Program Division *Nano Cell Interactions* explores the effects of advanced materials on human cells and tissues to enable safe applications of these materials in technical and biomedical fields. It strives to understand how materials properties influence structure and biochemistry of the cells and to elucidate mechanisms that affect the uptake or location of particles with the purpose to pave the way for the design of safer materials. As an example, well-defined inorganic nanoparticles based on SiO₂ and other nanoscale structures with varying surface modification and functionalisation (fluorophores, drugs) are developed.

Your scientific duties comprise the development, preparation, surface modification, and functionalisation of inorganic nanoparticles and similar materials for biological applications, the characterisation of such materials using methods like light scattering, electron microscopy, ICP-MS as well as publication of research data in scientific journals. With your expertise, you will support the interdisciplinary team which maintains various research cooperations within and outside INM (see: www.leibniz-nanosicherheit.de/en/).

Candidates should be interested in research on materials safety. They should have detailed experience in the field of advanced materials, their synthesis and characterisation. Candidates should be self-motivated, have good communication and presentation skills, and the ability to work independently as a member of a multi-disciplinary team. Proficiency in German and in English is required.

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. Salary and working hours are in accordance with the German state public service salary scale (TV-L) and the accordant social benefits. Full time jobs can be generally divided.

Interested candidates should submit their complete application (pdf-format, < 5 MB) via e-mail before April 19th, 2020 addressed to Gabriele Koster, secretary Nano Cell Interactions, under gabriele.koster@leibniz-inm.de.



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