The Collaborative Research Center 1278 "PolyTarget - Polymer-based nanoparticle libraries for targeted anti-inflammatory strategies" is funded by the Deutsche Forschungsgemeinschaft (DFG). The goal of PolyTarget is to develop polymer-based, nanoparticulate carrier materials for pharmaceutically-active ingredients enabling targeted therapy of diseases and syndromes, whose morbidity is characterized by an inflammatory reaction. The Integrated Research Training Group (IRTG) of PolyTarget is educating doctoral researchers in a structured, interdisciplinary training program. Close cooperation within the multi- and interdisciplinary consortium with researchers from the areas of Chemistry, Materials Science, Biology, Pharmacy, and Medicine offers unique prerequisites for research activities across disciplines and to transfer the findings from basic research into applications (www.polytarget.uni-jena.de).

The Integrated Research Training Group of PolyTarget invites applications for a **Doctoral Researcher Position (m/f/d)** at the Jena Center for Soft Matter (JCSM), Friedrich Schiller University Jena for **Solution Characterization**

The position is associated to the Solution Characterization Group of the Jena Center for Soft Matter (www.jcsm.uni-jena.de/). This group offers versatile facilities with the newest analytical ultracentrifugation, fractionation/separation, and light scattering equipment. The research responsibilities are closely associated and collaborate with various other projects within the framework of “PolyTarget” (www.polytarget.uni-jena.de) and take over tasks related to the characterization of nanoparticles, in particular by newly developed qualitative and quantitative techniques to study nanocarriers in a variety of settings. In focus of these studies are original studies concerning polymer architectures and nanocarriers intended for use in in vitro and in vivo settings. Attractive possibilities emerge from the collaboration with medicine, i.e. by direct study of structure-property relationships important for later clinical models in treating diseases.

**Requirements:**
- A Master’s degree (or equivalent) in chemistry, physics, biology or materials science.
- Readiness and enthusiasm to creatively design experiments and approaches enabling the study of so far unknown properties of materials.
- Highly self-motivated, creative, and goal-oriented personality.
- Ability for teamwork and thinking across subdiscipline boundaries.
- Excellent written and oral communications skills in English.

**Your tasks:**
- Solution characterization of aqueous polymer formulations regarding their size, morphology and composition in different media.
- Systematic investigation of how techniques can be combined to elucidate salient features (physical and chemical) of newly developed nanomedicines.
- Active exchange of measurements and experiences with other sub-projects of the CRC, particularly nanof ormulation and medical departments.
- Presentation of scientific results and interaction with scientists of various disciplines.

**We offer:**
- A doctoral researcher position as well as generous research funding.
- Excellent infrastructure for performing cutting-edge research (incl. high-end analytical ultracentrifugation, dynamic light scattering, small angle x-ray scattering, field-flow analysis, chromatographic techniques, light scattering instrumentation and many more, see also www.schubert-group.de).
- An interdisciplinary working research team with excellent expertise in all relevant areas of research, to be efficiently utilized for research.
- A strong scientific network integrating all relevant faculties of the Friedrich Schiller University and the University Hospital Jena, offering scientific stimulation and expertise beyond the own research objectives.
• Comprehensive mentoring program of hard and soft skills under guidance of an advisory board (Integrated Research Training Group) with the ability to develop individual skills and learn new skills in an optimal fashion.

• The place of work is Jena, Germany, a young and lively university town with dynamic business activities, successful scientific centers of innovation, and a vibrant cultural scene around a university with a rich tradition.

The position is initially limited to end of June 2021, extensions may by possible, depending on funding for the second phase of the CRC, respectively alternative funding. The pay scale follows the wage agreements for public employees of federal German states (TV-L13, 65%). Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Applications should be written in English. The application deadline is February 23rd 2019.

Applications are submitted exclusively via e-mail to: jcsm@uni-jena.de

Selected applicants will be invited to a recruitment meeting in Jena, Germany. For more information on the position, feel free to contact PD Dr. Ivo Nischang (ivo.nischang@uni-jena.de). For more information on the application process, please contact the coordinator, michael.gottschaldt@uni-jena.de. More project details: http://www.polytarget.uni-jena.de.

Please refer to the notes on: www.uni-jena.de/stellenmarkt_hinweis.html. Please also note the information on the collection of personal data on: www.uni-jena.de/Universität/Stellenmarkt/Datenschutzhinweis.