



The University of Jena offers the following position:

## Postdoctoral researcher

*on "Photo-Responsive Block Copolymer Micelles"*

*within the framework of the Collaborative Research Centre "POLYTARGET" (SFB 1278)*

### Topic / job description:

The goal of this project is to design core-shell-corona nanostructures for visible light-induced spatially and temporally selective delivery of medically active components. Therefore, suitable block copolymers will be designed using a combination of sequential controlled / living polymerization techniques, followed by side chain modification or macromolecular conjugation reactions. In addition, a two-color photo-controlled dynamic light scattering (DLS) setup to study the morphological changes of the nanoparticles in situ will be designed in the framework of this project. The project mainly involves the following steps:

- Synthesis and characterization of polymers and block copolymers
- Solution self-assembly
- Development of different post-polymerization modification strategies
- Setup and operation of a two-color DLS setup
- Supervision of graduate students
- Participation in teaching activities

### Requirements / expected profile:

- a PhD degree in chemistry or polymer chemistry
- Experience with different controlled/living polymerization techniques
- excellent knowledge of the English language in speaking and writing.

The vacant position is initially limited to 30.06.2021. Remuneration in accordance with the provisions of the Collective Agreement for the Public Service of the federal states (TV-L) in accordance with personal requirements up to the remuneration group 13. Severely handicapped people are given preference for equal qualifications, aptitude and professional qualifications.

Applications should include a letter of motivation (describing your main interests, the main results of your PhD thesis, and your motivation to apply for this position), a curriculum vitae, the contact details of two academic references and MA/BA/Diploma certificates.

Applications should be sent to [felix.schacher@uni-jena.de](mailto:felix.schacher@uni-jena.de) in a single PDF file until 14.07.2019. We prefer applications in electronic form. Hard copy applications can be sent to:

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