Postdoctoral researcher (m/f/d)

40 hours/week to work on the project “3D4D2 - 3D polymer matrix device for dual drug delivery and simultaneous treatment of acute malaria and malaria transmission” (subject to funding commitment).

Description:
We are looking for a postdoctoral researcher who will be actively involved into scientific work, the coordination and the management of the M-Era.Net project 3D4D2 – a collaborative project between 5 international institutions. The scientific focus of the work is on biodegradation and drug release characterization as well as of size distribution and conformation of novel drug delivery systems for malaria treatment. The postdoctoral researcher will help lead efforts as part of the PI’s coordinated project 3D4D2. The project involves development and application of a large portfolio of polymer separation methods, like field flow fractionation and liquid chromatography coupled with multiple detections. Light scattering, spectroscopic and microscopy methods will be complementary involved. Novel separation and detection approaches for in-situ characterization of the drug-delivery systems will be developed. As part of the Polymer Separation Group, the postdoctoral researcher will be responsible for guiding technical staff and supervising Master and PhD students.

Your profile:
We are looking forward to receive applications from highly motivated scientists with strong background in polymer separation and specifically, separation of natural macromolecules. Several years experience with field flow fractionation and light scattering techniques are requirement. Applicants should hold a PhD in polymer chemistry with a convincing publication record and should have a documented strong expertise and hands on experience in hyphenation of separation techniques for characterization of multidimensional distributions of macromolecular structures.

The postdoctoral researcher is expected to provide independent scientific work in collaboration with the members of the Polymer Separation group and the 3D4D2 project consortium. Pronounced planning and organisation skills, with the ability to coordinate multiple tasks, setting and meeting deadlines are essential. Excellent communication skills for scientific writing and proficient English are mandatory.

We offer:
A position in a leading research institute, combined with a state-of-the-art working environment where you can implement your own ideas and work with a creative international team within a highly topical, interdisciplinary project.

Salary: According to German pay grade TV-L EG 13
Starting date: from June 2021
Duration: 3 years