

Positions for a Polymer Chemist and a Specialist for Polymer Formulation and 3D Bioprinting

The **Department for Functional Materials in Medicine and Dentistry** at the **University of Würzburg, Germany**, is a material research institute with focus on the development of materials for biological and biomedical applications. Therefore, an interdisciplinary and international team of researchers works on the development of new materials and technologies, with a focus on the development of tissue models, tissue regeneration and biofabrication using the developed new materials and methods. For this, polymers are synthesized, characterized and optimized as materials basis especially as precursors and building blocks for hydrogels as coatings, colloids, bulk materials and shear thinning formulations, in close cooperation with the KeyLab **"Polymers for Medicine"** of the Bavarian Polymer Institute.

Our Research is financed by third party funding agencies at highest level, like the European Research Council (**ERC**), the German Research Foundation (**DFG**), and the European Union (**EU**). Since January 2018, a large transregional collaborative research center with 18 projects and almost 40 PhD students on the topic "From the Fundamentals of Biofabrication to Functional Tissue Models" is funded by the DFG. Research is performed in close collaboration with two University Hospitals and three Universities in the North of Bavaria (Bayreuth, Erlangen-Nuremberg and Wuerzburg).

We aim at cutting-edge research at the forefront of biomaterials development, and we are constantly publishing our studies in the top journals of the field. We are very well interlinked with the national and international communities and offer state-of-the-art infrastructure for polymer synthesis and characterization as well as small scale polymer processing and analysis of the prepared biomaterials.

To strengthen the polymer research within the department, we are inviting applications for two positions:

a) Scientific Postdoc "Polymer Synthesis / Hydrogels" (m/f)

in the field of polymer synthesis and polymer characterization for the development of hydrogels.

Your Tasks and Challenges:

- Initiation and conduction of own research projects focused on polymer / hydrogel synthesis
- Support and guidance of PhD students/associates working in your research area
- Supervision of Master and Bachelor students within the study courses "Chemistry" and "Functional Materials" offered at the University of Wuerzburg

Requirements:

- Completed PhD in the field of polymer chemistry or related disciplines
- Strong research accomplishments and publication record in the field of polymer synthesis
- Experience in polymer synthesis and polymer characterization applying current synthetical and analytical techniques

b) Scientific Postdoc “Bioink Development” (m/f)

in the field of bioink formulation and development.

Your Tasks and Challenges:

- Initiation and conduction of own research projects focused on material development or application of new materials and methods for Biofabrication
- Support and guidance of PhD students/associates working in your research area
- Supervision of Master and Bachelor students within the interdisciplinary study courses “Functional Materials” and “Biofabrication” offered at the University of Wuerzburg

Requirements:

- Completed PhD in the field of life sciences, polymer processing or related disciplines
- Strong research accomplishments and publication record (ideally in the field of hydrogel formulation or biofabrication)
- Specialization in material or hydrogel formulation and the application of new biomaterials

General Requirements for both positions:

- Excellent command of English language
- Openness for new analytical methods and techniques
- Excellent ability to work in a team but also independent driving of own projects
- Curiosity for interdisciplinary research and enthusiasm for cutting-edge research

We offer:

- A stimulating interdisciplinary work environment with the opportunity to perform own research and to acquire own third party funding
- Well-equipped department owned infrastructure from chemical synthesis over polymer and materials characterization to biological labs
- Initial funding is available for two years with option for a third year (payment at E13 level)
- An interdisciplinary and international working atmosphere
- Flexible working time, a family-friendly working environment and several upskilling possibilities
- Support for candidates that seek an academic career

The University Clinics of Wuerzburg is an equal opportunity employer and aims to increase the proportion of women in science. Applicants with disabilities are preferred when equally qualified.

Please email your application, including a non-generic motivation letter, why you are specifically interested in our lab, your CV, a list of publications as well as a short research plan, as **one PDF document** until **February 28, 2019** to Prof. Jürgen Groll (office@fmz.uni-wuerzburg.de).