

At the Chair for Advanced Materials Synthesis of the Julius-Maximilians University Würzburg (JMU) a

## **Research assistant (TV-L, 50%): Precision polymer synthesis and self-assembly**

is to be filled at the earliest possible date.

### **Background**

Structure-property relationships in polymer science have been studied during the recent decades in great detail. However, there is comparatively little empirical data on the influence of the dispersity of the properties of polymers, even though the dispersity is one of the most important parameters for polymer identity. Thus, the question whether precision matters in polymer science is one of the most fundamental questions left in the field.

### **Job description**

Solid-phase synthesis and living ring-opening polymerization will be used to synthesize a library of block copolymers, which subsequently will be analyzed using a large array of analytical tools, including NMR, GPC, HPLC, Maldi-ToF-MS, DLS/SLS, REM/TEM, XRD, SANS (@Jülich Centre for Neutron Research, Garching). Part of the research project may be carried out at the Lawrence Berkeley National Laboratory in California.

### **Your profile**

- Research based M.Sc. in Chemistry or a related field. Experience in synthetic (organic) chemistry
- Highly motivated, curious and open mind, and a passion for research
- Experience in working under inert conditions (Schlenk, glove box) with highly water or air sensitive reagents
- Practical knowledge about polymer science, polymer analysis and (living) polymerizations is desired
- Experience in step-wise solid phase synthesis and/or automated synthesis is helpful

The JMU aspires to increase the proportion of women in science and encourages applications of qualified women. Severely disabled applicants, that are otherwise equally qualified will be hired preferentially.

Interested candidates are invited to send their application, detailed curriculum vitae (2 page maximum) optional letters of reference and a letter elaborating the motivation for the application **before April, 4th 2017** to

Prof. Dr. Robert Luxenhofer ([robert.luxenhofer@uni-wuerzburg.de](mailto:robert.luxenhofer@uni-wuerzburg.de)), Lehrstuhl für Chemische Technologie der Materialsynthese, Julius-Maximilians-Universität Würzburg, Röntgenring 11, 97070 Würzburg.

Please only send copies of documents as your materials will not be returned but destroyed after the position has been filled. In case you provide a stamped addressed envelope, your documents will be sent back to you not later than 2 months after the position has been filled.

### **Employer**

The JMU is an internationally acclaimed university offering a wide range of subjects. Established in 1402, the University of Würzburg is now offering more than 100 subjects from the humanities, social and natural sciences, life sciences, medicine and selected areas of engineering. The Department Chemistry and Pharmacy is regularly ranked among the top research addresses in Germany, Europe and the world in the field of Chemistry. The Luxenhofer Lab focuses on polymer synthesis of tailored biomaterials for a variety of applications and has made pioneering contributions in polypeptoid and poly(2-oxazoline) based biomaterials.