

Job vacancy No. 121-2021

The Leibniz Institute of Polymer Research Dresden is a non-university research institute and a member of the Leibniz Association. It has gained world-wide reputation for its application-oriented basic research on new polymer materials for future technologies, e.g. in the fields of energy, mobility, health, sustainability, and communication, and it supports the transfer of research results into application. The research work is carried out on the basis of state-of-the-art technical equipment in interdisciplinary cooperation between the five institutes of the IPF and embedded in numerous national and international cooperations. The IPF promotes young scientists and is certified as a family-friendly employer according to the Audit berufundfamilie®. The institute currently employs around 500 persons. Further information at www.ipfdd.de.

The IPF-Institute of **Biofunctional Polymer Materials** is looking for a highly motivated

PhD student (m/f/d)

The position (30h/week, limited to 3 years) is available immediately.

Research project:

Low pressure plasma techniques are versatile tools for surface modification of polymeric materials. A wide range of physical and chemical effects can be achieved in the near-surface region. However, actual depth profiles of material properties are often neither known quantitatively nor utilized to full capacity. The research project **3D structure and dynamics of plasma-treated polymer materials** sets out to overcome this limitation by looking in detail at exemplary and application-relevant cases. A range of complementary and partly new surface diagnostic techniques, capable of depth profiling on a sub-micron scale, will be employed to demonstrate additional degrees of freedom for surface and interface engineering of polymeric materials.

We expect the successful applicant to develop a deep understanding of the research field and related experimental techniques, to write academic publications, and to participate at international conferences.

Requirements:

- master or diploma degree in physics, material science or a closely related discipline
- reliability, diligence, independent way of working
- good knowledge of written and spoken English

Ideal skills:

- prior experience with polymer surface modification and/or surface diagnostics
- prior experience with low pressure plasma

Salary: According to German pay grade TV-L EG 13

Starting date: immediately

Duration: 3 years

The IPF Dresden strives for gender equality and diversity in all fields. Applications by people with severe disabilities will be given preference if they are equally qualified. Moreover, as the IPF would like to raise the proportion of women in fields where they are underrepresented, women in particular are invited to apply.

The personal data collected by the IPF relating to your application, as well as the evaluation thereof shall be processed exclusively for purposes of the application process on the basis of contractual measures under Art. 6 (1b) GDPR. These data shall not be transferred to third parties. Recipients shall comprise the employees responsible, the Works Council as well as, where applicable, the representative body for disabled employees and the equal opportunities officers of the IPF. Your application details provided to us shall be deleted by us 6 months after the end of the application process, i.e. either after the job advertised has been filled, or after we have decided not to fill the vacancy after all. For questions under data protection law and for exercising your rights, please contact: d.atenschutz@ipfdd.de (data protection officer). You have the right to complain to the supervisory authority. Expenses for the interview participation will not be refunded.

Application Procedure:

Full applications including motivation letter, CV, publication list, should be emailed as a single PDF file to otto-susanne@ipfdd.de. Don't forget to indicate the number of the Job vacancy. For further information please contact Dr. Nitschke: nitschke@ipfdd.de.

Leibniz-Institut für Polymerforschung Dresden e. V.

Susanne Otto

Human Resources Department

Hohe Straße 6

01069 Dresden

otto-susanne@ipfdd.de