Job vacancy No. 035-2021

The IPF-Institute Physical Chemistry and Polymer Physics, Department Polymer interfaces is looking for a

Researcher (m/f/d),

26 hours/week.

The Leibniz Institute of Polymer Research Dresden (IPF) is one of the largest polymer research facilities in Germany. As an institute of the Leibniz Association, the IPF is committed to carrying out application-oriented basic research and receives its base funding in equal parts from the federal and state governments. The institution granting the Ph.D. degree is the Technical University (TU) Dresden.

Project description:

The wetting and dewetting dynamics of aqueous solutions, liquid mixtures, and suspensions is an essential part of many processes; ranging from printing and coating over pesticide distribution to cleaning processes. The multi-component and multi-phase nature of these systems is far beyond existing models and a quantitative modelling is still lacking. The aim of this project gain insight in the governing mechanisms of the wetting and dewetting of multi-phase systems. A major step in this direction is measuring the flow profile close to advancing and receding contact lines with high temporal and spatial resolution. By further developing existing setups of a confocal microscope and a astigmatic particle tracking velocimetry, the successful candidate should implement and exploit a particles tracking velocimetry scheme. The successful candidate should have a background in several of the following fields.

Qualifikations:

- Hydrodynamics (especially low Reynolds number flows)
- physics of non-Browmian suspensions, thermodynamics (especially adsorption and desorption processes)
- optics (especially design and alignment of laser optical systems)
- computer assisted experiment control and data analysis (this implies programming in Labview and Matlab or similar programming languages)
- Good communication skills in spoken and in written English are essential

Salary: According to German pay grade TV-L EG 13
Planned starting date: Mai 2021
Duration: 1 year (with option for contract extension to 3 years in total)

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: datenschutz@ipfdd.de (data protection officer). You have the right to complain to the supervisory authority. Expenses for the interview participation will not be refunded.

Full applications should include a curriculum vitae, a 1-page letter of motivation, relevant certificates, a list of publications, 2-3 references and expected availability date and 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 scientific questions please contact Dr. Günter K. Auernhammer: auernhammer@ipfdd.de.

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