At the Faculty of Mechanical Science and Engineering in the Institute of Materials Science the position of

Chair (W2) of Elastomeric Materials

combined with the position of the

Head of the Department of Elastomers

at the Leibniz-Institut für Polymerforschung Dresden e.V. (IPF)

is to be filled by September 1st, 2018 in a joint appointment procedure.

The Institute of Materials Science represents the materials science and materials technology in academic research and teaching at the TU Dresden. Fundamental and application-oriented questions of materials research are at the same time focused on to foster the development of new materials and their technological implementation into innovative products, in close interaction between university and non-university research institutions and in cooperation with the private sector.

The IPF is a legally and economically independent research institution of international recognition and a member of the Leibniz-Gemeinschaft (Leibniz Association). The IPF carries out comprehensive polymer material research. One research focus at the IPF institute of Polymer Materials is on elastomeric materials. The IPF and the TU Dresden aim to strengthen the field of Elastomers Science in Dresden by the appointment of this joint W2 Chair.

We are looking for a recognised scientist with proven skills in the field of Elastomeric Materials and with a research focus on new, complex material and processing concepts for the development, application-appropriate technological implementation and characterisation of novel functional elastomeric materials as e.g. system components in energy-efficient light-weight construction and mobility technologies, intelligent materials and composites and medical technology, with a focus on process engineering. In the teaching, courses in the fields of the chemical-physical basics of conventional and thermoplastic elastomers, methods and machines of rubber technology, elastomer processing and structure-property-functional relationships of elastomeric materials are expected to be held. Appropriate teaching experience is expected. The willingness to participate in national and international research networks, including the initiation and procurement of new research cooperation projects is required. The duties include participation in academic self-administration.

In particular, comprehensive knowledge is required in the fields of

- Process-driven morphology and property formation in elastomer mixing and shaping processes
- Development of function-integrated elastomer (nano) composites, high-performance elastomers and thermoplastic vulcanizates
- Tailored interphase design for particle- and textile-reinforced elastomer composites
- Sustainable and resource-conserving elastomers

Excellent track record and relevant experience in research and teaching on the subject areas mentioned, as well as in the instruction and leadership of academic and non-academic personnel and a willingness and ability to conduct classes in English are expected.

Applicants must fulfil the employment qualification requirements of § 58 of the Act Governing Academic Freedom in Higher Education in the Free State of Saxony (Saxon Academic Freedom in Higher Education Act – SächsHSFG).

For further information please call +49 351 463 32786.

TU Dresden and IPF seek to employ more women professors. Hence we particularly encourage women to apply. Applications from disabled candidates or those with additional support needs are very welcome. The University is a certified family-friendly university. IPF commits itself as being a family-friendly institute. Both offer a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty of Mechanical Science and Engineering (Dr.-Ing. Veneta Schubert, phone +49 351 463 33888) or the Representative of Employees with Disabilities (Mrs. Birgit Kliemann, phone +49 351 463 33175).

Please send your application together with a description of your research concept, curriculum vitae, list of publications, list of external funding received and information about your teaching experience in duplicate as well as a certified copy of your highest academic degree to TU Dresden, Dekan der Fakultät Maschinenwesen, Herrn Prof. Dr.-Ing. habil. Ralph Stelzer, Helmholtzstr. 10, 01069 Dresden, Germany and as electronic copy via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it to dekanat.mw@tu-dresden.de until 05.07.2018 (stamped arrival date of the university central mail service applies). The documents will be sent to the respective bodies of the TU Dresden and the IPF. Representatives of both institutions make up the joint appointment commission.