

The **Faculty of Electrical and Computer Engineering, Institute of Semiconductors and Microsystems** invites applications for the

## **Chair (W2) of Materials Integration in Microelectronics and Microsystems**

connected with the

**Head of the newly founded research area Material Systems Integration at the Institute of Physical Chemistry and Polymer Physics (IPC) of the Leibniz-Institut für Polymerforschung Dresden e.V. (IPF)**

to be filled in a joint appointment procedure at the **earliest possible date**.

TU Dresden is one of the largest technical universities in Germany and one of the leading and most dynamic institutions in the country. With 17 faculties in five Schools, it offers a wide range of more than 120 degree courses and covers a broad research spectrum. Its focuses Health Sciences, Biomedicine & Bioengineering, Information Technology & Microelectronics, Materials Science & Engineering, Energy, Mobility & Environment as well as Culture & Societal Change are considered exemplary in Germany and throughout Europe. Since 2012, TU Dresden is one of the "Universities of Excellence".

At the Leibniz Institute of Polymer Research Dresden e.V. (IPF), a total of 485 natural scientists (chemists, physicists, biologists) and engineers collaborate intensively. The institute has high competence and modern infrastructure for synthesis, analytics and simulation, as well as processing and testing of polymers and polymer materials. This allows excellent basic research in polymer science and diverse transdisciplinary cooperation. Through technology transfer, spin-offs and industrial cooperation, the IPF promotes the path of innovations into application.

We are looking for you (m/f/x) as an individual with scientific international credentials in the fields of materials integration in microelectronics and microsystems, synthesis and assembly of functional hybrid materials consisting, for example, of polymers, nanoparticles and biomacromolecules. Expertise is expected in innovative patterning techniques such as high-resolution additive micro-fabrication, microfluidics and microprocessing techniques, and the combination of these approaches for system implementation of hierarchically structured and adaptive multi-material composites. You will have the opportunity to develop and implement a challenging, future- and application-oriented research program in the field of development and system integration of functional polymer and hybrid materials as well as interactive / smart materials. In doing so, a comprehensive approach consisting of material synthesis, method development, multi-scale structuring and multi-material integration as well as their application in microsystems and microelectronics is to be developed as an essential unique selling point. In particular, the research activities of the Faculty of Electrical and Computer Engineering and the local research network in the fields of biomedical engineering, soft robotics, (bio)sensorics, optoelectronics, sustainable electronics and human-machine interfaces are to be strengthened, which requires a corresponding interdisciplinary approach. You will contribute to the teaching of the Faculty of Electrical and Computer Engineering, including giving courses in English. Mandatory teaching amounts 2 to 4 hours per week during the semester. Your duties furthermore include participation in self-administration.

We expect from you successful scientific activities in a current field of the appointment area, excellent research achievements with high development potential, experience in teaching in the subjects of functional hybrid materials and materials integration, outstanding didactic skills, accomplishments in securing research grants from third parties and experience in the guidance and leadership of scientific as well as non-scientific staff. The ability and willingness to teach courses in English is required. Proficiency in German is not a prerequisite for appointment. However, we expect the successful candidate to acquire sufficient language skills in German to conduct teaching and administrative tasks within two years of appointment. Applicants must fulfil the employment qualification requirements of § 58 of the Act on the Autonomy of Institutions of Higher Education in the Free State of Saxony (SächsHSFG).

For further questions, please contact the Dean of the Faculty of Electrical and Computer Engineering, Prof. Dr.-Ing. Karlheinz Bock (Tel. +49 351 463-32281; email: [dekanat.et@tu-dresden.de](mailto:dekanat.et@tu-dresden.de)) or the head of the appointment committee, Prof. Dr.-Ing. Andreas Richter, tel. +49 351 463-32025; email: [andreas.richter7@tu-dresden.de](mailto:andreas.richter7@tu-dresden.de).

TU Dresden and the Leibniz Institute of Polymer Research Dresden e.V. seek to employ more female professors. Accordingly, we particularly encourage women to apply. Applications from candidates with disabilities or those requiring additional support are very welcome. The University and IPF are certified family-friendly institutions and offer a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty of Electrical and Computer Engineering (Ms. Lena Elspaß, phone +49 351 463-40517) or the Representative of Employees with Disabilities at TU Dresden (Mr. Roberto Lemmrich, phone +49 351 463-33175), as well as the Equal Opportunity Officer of the Leibniz Institute for Polymer Research Dresden e.V. (Dr. Victoria Albrecht, +49 351 4658 317).

Please submit your application, including a CV in tabular form, a description of your scientific career, a list of your scientific publications, and a list of courses taught, results of evaluations (preferably of the last three years) as well as a certified copy of the certificate of your highest academic degree in hard copy to **TU Dresden, Dekan der Fakultät Elektrotechnik und Informationstechnik, Herrn Prof. Dr.-Ing. Karlheinz Bock, Helmholtzstr. 10, 01069 Dresden, Germany** and in electronic form via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it to [dekanat.et@tu-dresden.de](mailto:dekanat.et@tu-dresden.de) by **October 6, 2022** (stamped arrival date of the university central mail service applies). Your application documents will be made available to the responsible committees of TU Dresden and the IPF.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>

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