At the Faculty of Electrical and Computer Engineering, the Institute of Electromechanical and Electronic Design seeks to fill the

Chair (W3) of Design Methods for Adaptive Microelectronic Systems

associated with a

Management Position at the Fraunhofer Institute for Integrated Circuits IIS, Division Engineering of Adaptive Systems EAS

in a joint appointment procedure at the earliest possible date according to the Jülicher Modell (Beurlaubungsmodell).

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, Smart Materials & Structures, Energy, Mobility & Environment as well as Culture & Societal Change are considered exemplary in Germany and throughout Europe. Since 2012, TU Dresden has been one of the “Universities of Excellence”.

Fraunhofer IIS/EAS in Dresden employs approximately 90 scientists and cooperates closely with TU Dresden. The spectrum of research and development at the division ranges from design methods for functionally safe as well as reliable systems and circuits, to the design of efficient electronics and intelligent sensor systems as well as the development of algorithms for the analysis of large amounts of data and the intelligent control of automation processes.

In your new role, you will competently represent your main topics in research and teaching as well as in research and technology management towards research sponsors and research partners, and further expand the strategic connection between TU Dresden and the Fraunhofer Institute for Integrated Circuits IIS. You can expect an environment that allows for versatile projects with a high degree of practical relevance and a great deal of creative freedom in research. The participation in the management team of the Fraunhofer EAS includes the scientific, technical and entrepreneurial control and development of your research area within the Fraunhofer model and the Fraunhofer overall strategy. We expect you to fulfil teaching obligations of usually two SWS (weekly lecturing hours per semester). You will conduct the lecture "Thermal Design of Electronic Systems" and contribute to the lecture "Modelling and Simulation of Microsystems" in the compulsory elective area of the advanced studies. Skills for conducting lectures in the English language are required as well as active participation in academic self-administration.

Basis of the chair is your expertise in research and teaching with a clearly discernible reference to the research area of electromechanical and electronic design: modelling methods for electronic systems (including sensors/actuators), simulation-based design of adaptive algorithms (e.g., Machine Learning), methodology development for functionally safe networked systems, and design methods for MEMS. Thereby, you extend the existing electromechanical and electronic
design methodologies of the chair with new strategies for system design and integration. Your willingness for interdisciplinary cooperation with other disciplines of the university as well as non-university partners is assumed, especially with the goal of testing and verifying new design methodologies.

You have many years of management experience in large, interdisciplinary research groups, experience in strategic planning, acquisition and implementation of large-volume national and international research and development projects in various business fields, as well as expertise in increasing the efficiency of development processes and in technology exploitation. International work and teaching experience and/or experience in international projects and science policy networking are advantageous. Applicants must fulfill 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 chairman of the appointment committee, Prof. Dr.-Ing. habil. Jens Lienig, (phone +49 351 463-34742; e-mail: jens.lienig@tu-dresden.de) or Prof. Dr.-Ing. Albert Heuberger, Executive Director of the Fraunhofer Institute for Integrated Circuits IIS (e-mail: albert.heuberger@iis.fraunhofer.de).

The TU Dresden and the Fraunhofer-Gesellschaft seek to employ more female professors. Hence, we particularly encourage women to apply. Applications from candidates with disabilities or those requiring additional support are very welcome. The University is a certified family-friendly university and has a Dual Career Service. If you have any questions on these topics, please contact the Equal Opportunities Officer of the Faculty of Electrical and Computer Engineering (Dr.-Ing. Marcella Oberst, +49 351 463-34756) or the central Equal Opportunities Officer of the Fraunhofer-Gesellschaft (Dipl. Ing. Regina Böckler, +49 89 54759-322) or the Representative of Employees with Disabilities of TU Dresden (Mr Roberto Lemmrich, +49 351 463-33175) and the representation of the disabled employees of the Fraunhofer-Gesellschaft (Frank Müller, +49 511 5350-342).

Please send your application with a tabular curriculum vitae, a presentation of your scientific background, a list of scientific work, a list of courses including teaching evaluation results of the last three years and a certified copy of the certificate for the highest academic degree until September 30, 2021 (stamped arrival date of the university central mail service applies) to: TU Dresden, Dekan der Fakultät Elektrotechnik und Informationstechnik, Herrn Prof. Dr.-Ing. Karheinz Bock, Helmholtzstr. 10, 01069 Dresden and in electronic form via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de, by sending it as a single pdf document to dekanat.et@tu-dresden.de. The application documents will be made available to the responsible bodies of the TUD and the Fraunhofer-Gesellschaft.

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