At the Faculty of Mechanical Science and Engineering, the Institute of Mechatronic Engineering invites applications for the

Chair (W2) of Construction Machines

to be filled at the earliest possible date as a salaried employee.

We are looking for an individual with a proven scientific track record who is able to represent the field of construction machinery and related topics in research and teaching with dedication and will successfully manage the established and acclaimed chair with more than 20 employees and extensive laboratory equipment. The focal points in research and teaching are:

- Holistic and interdisciplinary analysis and further development of construction machinery, plants for construction materials and bulk material handling systems as well as of construction processes and construction methods.
- Development of innovation potentials by means of digitalisation, automation and connectivity.
- Integration of novel drive concepts and innovative operating methods.
- Consideration of all product life phases under the aspects of functionality, control, operator guidance, productivity, safety and economic efficiency.
- Development and application of virtual and experimental methods for the development and validation of machines, tools and utilisation processes.

Your teaching tasks will include courses on construction machinery and construction material plants, recycling technology as well as the modelling and simulation of off-road vehicle systems. These courses are offered in German and English as part of international study programmes. Your willingness to participate in academic selfadministration as well as national and international research networks, including the initiation of research projects, is a prerequisite.

We expect nationally and internationally verifiable research work on the listed topics. Close cooperation with national and international partners from science and industry as well as good networking in industry and committees is highly desirable. In addition, you should have many years of practical experience in technology-oriented, executive corporate functions as well as relevant teaching experience in the above-mentioned fields. 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 regarding the application please contact the Dean's Office (+49 351 463-32786).

TU Dresden seeks to employ more female professors. Hence, we particularly encourage women to apply. Applications from candidates with disabilities and those requiring additional support are very welcome. The university is a certified family-friendly university and offers 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 (Ms. Stephanie May, +49 351 463-32786) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, +49 351 463-33175)
Please submit your application including with a curriculum vitae in tabular form, a description of your academic career, copies of the most important publications, a list of academic papers, a list of courses and the results of the teaching evaluations (preferably of the last three years) as well as a certified copy of the certificate of the highest academic degree no later than **02.10.2020** (stamped arrival date of the university central mail service applies) to: **TU Dresden, Dekan der Fakultät Maschinenwesen, Herrn Prof. Dr.-Ing. Michael Beckmann, Helmholtzstr. 10, 01069 Dresden** and in electronic form via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) to [dekanat.mw@tu-dresden.de](mailto:dekanat.mw@tu-dresden.de).

**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](https://tu-dresden.de/karriere/datenschutzhinweis).