The Faculty of Environmental Sciences, Department of Geosciences, Geodetic Institute invites applications for the Chair (W2) of Geo Sensor Systems to be filled at 01.04.2021.

The position holder shall represent the topic of geo sensor systems in the context of geodesy and geoinformatics in research and teaching. In teaching, specific basics and competences of engineering geodesy are to be conveyed in courses of study in the field of construction and environment of the TU Dresden. It is expected that the holder will be willing to offer relevant courses in other (also English-speaking) courses of study at the TU Dresden. The tasks in teaching also include further development and internationalisation of the study courses. The duties include participation in academic selfadministration. The research includes the acquisition and evaluation of data, where spatial processes are in the foreground (incl. distributed multi-sensor systems), as well as the further development of geo sensor systems to a smart geodetic sensor system for the built environment. The fields of application can lie e.g. in the areas of kinematic engineering geodesy (e.g. in automated driving), indoor navigation, Building Information Modelling (BIM) or Smart Cities. The core competences expected are methods of deterministic and stochastic modelling of measurement processes, knowledge of physical sensor models, the recording and modelling of environmental conditions and all other relevant influencing variables as well as the indirect determination of target variables and their quality parameters. Interest and the ability to participate in environmentally-related collaborative research are assumed.

The applicant should have proven experience in the handling of geometry-related topic complexes from planning and measurement to evaluation and interpretation under consideration of thorough quality assessment and the economic efficiency principle as well as in-depth knowledge and experience in the field of geo sensors in connection with corresponding geodetic evaluation methods. She/He should be internationally proven in the field of geo sensor systems and be able to demonstrate successful preliminary work, especially in interdisciplinary cooperation. We are looking for an internationally recognized scientist who is distinguished by high-ranking publications. International networking and experience in the acquisition of third-party funding are assumed and must be proven by successful research cooperations or projects. It is also expected to maintain and further develop its existing worldwide cooperations with partners in science and industry. In this context, the interdisciplinary cooperation in the field of construction and environment of the School of Civil and Environmental Engineering at TU Dresden is expected.

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 scientific questions, please contact the head of the appointment committee, Prof. Dr. Alexandra Weitkamp, phone +49 351 463-37115, e-mail: alexandra.weitkamp@tu-dresden.de.

TU Dresden seeks 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 offers a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty of Environmental Sciences (Prof. Dr. forest. habil. Doris Krabel, +49 35203 38-31857) or the Representative of Employees with Disabilities (Mr. Roberto Lemmrich, +49 351 463-33175).
Please submit your application, including CV, description of your scientific career, lists of third-party funding received and teaching activities, teaching evaluation results of the last three years, description of the future research and teaching concept, list of publications, copies of the 5 most important publications as well as a certified copy of your highest academic degree as hard copy to TU Dresden, Dekan der Fakultät Umweltwissenschaften, Herrn Prof. Dr. rer. nat. Lars Bernard, Helmholtzstr. 10, 01069 Dresden, Germany and in electronic form via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single PDF-document to the Dean's Office dekanat.uw@tu-dresden.de. Application deadline is 20.04.2020 (stamped arrival date of the university central mail service applies).

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