The Faculty of Physics, Institute of Applied Physics, and the Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR) seek to fill the

Chair (W2) of High-Field Terahertz Physics

combined with the position of

a head of department at the HZDR

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

Since 2012, TU Dresden has been one of eleven German "Universities of Excellence". The Faculty of Physics is one of the strongest in Germany concerning research and third-party funding. Experimental and theoretical research focus on condensed matter physics, particle and nuclear physics, complex quantum systems, and biophysics. With more than 60 doctoral graduations per year, the Faculty of Physics of TU Dresden holds a leading position in the training of doctoral students.

As member of the Helmholtz Association of German Research Centers, the HZDR employs about 1,400 people. The Center's focus is on interdisciplinary research in the areas energy, health and matter. One of its missions is the operation of large-scale research infrastructures, such as an accelerator based photon source. Research in the area matter covers a wide range of topics, reaching from quantum materials and nanoscience to advanced accelerator development and relativistic laser plasma physics.

The chair will be dedicated to the scientific exploration of the projected accelerator based THz and VUV light source DALI (Dresden Advanced Light Infrastructure, www.hzdr.de/dali). A leading role in the concept development for the scientific application of DALI, as well as a strong commitment to the preparation of the Technical Design Report (TDR) is expected. This will also include tasks related to the management and external representation of the DALI project. Before DALI will be available, you are expected to make use of the THz/IR sources TELBE and FELBE at the superconducting electron accelerator ELBE for your research. In addition, a large, state-of-the-art suite of table-top laser systems is available. Possible research topics include THz spectroscopy (nonlinear and time-resolved) of hard or soft condensed matter, but also the physics of accelerator-based photon sources. With this background, you will engage in interdisciplinary collaboration within the HZDR and TU Dresden, as well as with other non-university research institutions of the DRESDEN-concept network. You will have teaching duties within the Faculty of Physics in the range of two to four semester hours per week. We also expect your willingness and ability to conduct courses in the English language as well as participation in academic self-administration.

We are looking for a scientist with experience in high-field THz physics, ideally also in relation to accelerator-based generation of radiation. In addition to an excellent scientific record, you should have leadership experience, the ability to work in a team, and strategic management skills, as well as experience in attracting external funding. To be eligible for the position, a PhD in physics or a related discipline is required, as well as a habilitation or habilitation-equivalent achievements. 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 Physics, Prof. Dr. Carsten Timm, phone +49 351 463-34822, email carsten.timm@tu-dresden.de.

TU Dresden and the HZDR 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. Both TU Dresden and the HZDR are certified family-friendly institutions. TU Dresden offers a Dual Career Service. If you have any questions about these topics, please contact the Equal Opportunities Officer of the Faculty of Physics (Jun.-Prof. Dr. Lana Ivanjek, phone +49 351 463-42362) or of the HZDR (Dr. Sandra Hamann, phone +49 351 260-3649) and the Representative of Employees with Disabilities of TU Dresden (Mr. Roberto Lemmrich, phone +49 351 463-33175) or the HZDR (Dr. Franz Bok, phone +49 351 260-3551).

Please submit your application (including a comprehensive CV, a description of your research concept, list of publications and of third-party-funding, a compilation of courses taught incl. the results of evaluations, preferably of the last three years, and a certified copy of the certificate of your highest academic degree) as hard copy to TU Dresden, Dekan der Fakultät Physik, Herrn Prof. Dr. Carsten Timm, Helmholtzstr. 10, 01069 Dresden, Germany until September 2, 2022 (stamped arrival date of the university central mail service applies) and as a single PDF file via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de to dekanat.physik@tu-dresden.de. The application documents will be made available to the responsible committees at TU Dresden and the HZDR.

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://tudresden.de/karriere/datenschutzhinweis