

At the **School of Science, Faculty of Physics, Institute of Nuclear and Particle Physics** the position of

Chair (W3) of Accelerator Mass Spectrometry and Isotope Research

in combination with the

**Head of the Department of Accelerator Mass Spectrometry
at the Institute of Ion Beam Physics and Material Research
of the Helmholtz-Zentrum Dresden-Rossendorf e.V.**

is to be filled **as soon as possible** in a joint appointment procedure. The successful candidate shall contribute to the teaching program in nuclear and particle physics. The chair is devoted to the following research areas:

- advancement of accelerator mass spectrometry excluding the field of radiocarbon dating,
- interdisciplinary research and applications of natural and anthropogenic fingerprints of rare isotopes and trace elements, e.g., in the environment, in geology, and in medicine,
- nuclear astrophysics, for example in the field of nucleosynthesis, and dark matter.

At the same time, the holder of the chair will direct the new structure Department of Accelerator Mass Spectrometry at the **Institute of Ion Beam Physics and Material Research** of the Helmholtz-Zentrum Dresden-Rossendorf e.V. (HZDR). Besides nuclear astrophysics, the focus is mainly on actinides and other anthropogenic traces in the environment, on long-lived radionuclides occurring as fission and fusion products, as well as on medical applications of accelerator mass spectrometry. The corresponding experiments will be conducted at the Ion Beam Center of the HZDR. In the years to come accelerator mass spectrometry will be significantly extended and converted to a user facility within the Helmholtz Association.

To fill the position of the head of the new department we seek after an internationally outstanding researcher with a broad scientific spectrum ideally covering several of the above-mentioned topics, who is able to cooperate with the representatives of the respective research areas at the HZDR and at TU Dresden. 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 (Higher Education Act of the Free State of Saxony– SächsHSFG). Besides a university degree in physics as well as teaching abilities and particular competence in working scientifically, additional scientific merits are expected, such as a junior professorship, a habilitation degree, or an equivalent scientific activity. A strong commitment to teaching and academic self-administration is required.

The HZDR is a research centre with approx. 1,100 employees and a member of the Helmholtz Association of German Research Centres. Its interdisciplinary core research areas are energy, health, and matter. The work is performed in close cooperation within the Association as well as with universities, non-university institutions and industry. Detailed information can be found at <http://www.hzdr.de>.

For further scientific information please contact Prof. Dr. Dr. h. c. Roland Sauerbrey, Scientific Director of the HZDR, phone +49 351 260-2744, -2625, fax +49 351 260-2700, e-mail r.sauerbrey@hzdr.de or Prof. Dr. Jürgen Fassbender, phone +49 351 260-3096, e-mail: j.fassbender@hzdr.de.

TU Dresden and the HZDR seek to employ more women professors. Hence we particularly encourage women to apply. Applications from disabled candidates or those with additional support needs 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 HZDR (Dr. Fine Fiedler, phone +49 351 260-2973) and the Equal Opportunities Officer of Faculty of Physics (Prof. Dr. Ellen Hieckmann, phone +49 351 463-36051) or the Representative of Employees with Disabilities (Ms Birgit Kliemann, phone +49 351 463-33175).

Please send your application, including the usual documents, a description of your areas of research, a summary of your teaching activities, and up to five selected reprints, until **10.07.2018** (stamped arrival date of the university central mail service applies) to **TU Dresden, Dekan der Fakultät Physik, Herrn Prof.**

Dr. Roland Ketzmerick, Helmholtzstr. 10, 01069 Dresden and additionally, merged into one PDF file, as electronic copy via the TU Dresden SecureMail Portal (<https://securemail.tu-dresden.de>) by sending it to **dekanat.physik@tu-dresden.de**. Your application documents will be made accessible to the Board of Directors of the HZDR. Representatives of both institutions will take part in the interviews.

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