Faculty of Mechanical Science and Engineering

At the Institute of Power Engineering, the Chair of Imaging Techniques in Energy and Process Engineering offers, subject to resources being available, a position as

Research Associate / PhD Student
in the field of muon detector development
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting 01.04.2020. The position is limited until 31.03.2023. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD). Balancing family and career is an important issue. The post is basically suitable for candidates seeking part-time employment.

Tasks: Development of large-area detectors for cosmic muons. In more detail, the following objectives should be pursued:

- comparative analysis of different concepts for drift chamber detectors
- development of new compact and robust detector designs
- simulation of radiation interaction and charge transport in detectors
- development of dedicated multi-channel data processing electronics
- assembly and test of detectors and conduction of experiments

Requirements: very good university degree (diploma, master degree) preferably in physics or electronics engineering; knowledge of radiation detector technology as well as particle transport simulations is beneficial.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documents by 28.02.2020 (stamped arrival date of the university central mail service applies) by mail to: TU Dresden, Fakultät Maschinenwesen, Institut für Energietechnik, Professur für Bildgebende Messverfahren für die Energie- und Verfahrenstechnik, Herrn Prof. Dr.-Ing. habil. Uwe Hampel, Helmholtzstr. 10, 01069 Dresden or via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it as a single pdf document to uwe.hampel@tu-dresden.de. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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