Faculty of Psychology

The Neuroimaging Centre (NIC) invites applications for a position as

**Research Associate / MR-Physicist/Engineer**

(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting from **July 1st 2020**. The position is initially limited until June 30th 2024 with the possibility of subsequent long-term employment. The period of employment is governed by § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG).

The NIC is a facility jointly managed by the Faculty of Psychology and the Carl Gustav Carus Faculty of Medicine and provides state-of-the-art neuroimaging to several research groups at the university. The Centre is equipped with a research-only MRI scanner (Siemens 3T TIM Trio), MRI-compatible EEG and eye-tracking, a real-time fMRI setup, and a transcranial magnetic stimulation (TMS) unit. It is supported by the high-performance computer infrastructure of the Centre for Information Services and High Performance Computing. Currently, the majority of projects at the NIC are funded by the German Research Foundation DFG through the Collaborative Research Centres SFB 940 “Volition and Cognitive Control: Mechanisms, Modulators, and Dysfunctions” ([www.sfb940.de](http://www.sfb940.de)) and TRR 265 “Losing and Regaining Control over Drug Intake: From Trajectories to Mechanisms to Interventions” ([sfb-trr265.charite.de](http://sfb-trr265.charite.de)).

**Tasks:** The MRI-Physicist/Engineer will be responsible for maintaining the imaging hard- and software at the NIC and for supporting the user community. This entails initial support of new projects, a timely response to data acquisition issues, consulting on MR-sequences and data processing, and a contribution to the image processing workflows (currently implemented in Python and Matlab). The MRI-Physicist/Engineer is also expected to engage in innovative scientific research in close collaboration with the Imaging Physics Group at the NIC and applied research groups.

The NIC is a hub of interdisciplinary research with an emphasis on teamwork. It provides an ideal learning environment for scientists with an interest in neuroimaging and cognitive neuroscience.

**Requirements:** university degree and preferably doctorate in a scientific or technical discipline (physics, electrical engineering, computer science, etc.) The candidate should have detailed knowledge of MR physics and fMRI. The ability to set up and maintain technical equipment (e.g. MRI-specific devices for stimulation presentation and reaction registration) is required. Good computer and programming skills, preferably in Python and Matlab, are required. Research experience, including publications by first-time authors, and a good knowledge of English are expected. German language skills and experience with fMRI data processing are also an advantage.

For questions about this position please contact Dr. Michael Marxen ([michael.marxen@tu-dresden.de](mailto:michael.marxen@tu-dresden.de), tel.: +49 351 46342212).

Applications from women are particularly welcome. The same applies to people with disabilities. Applicants should send their application documents (cover letter including a description of personal qualifications and research interests, CV and contact details of two personal references) until **14.05.2020** (stamped arrival date of the university central mail service applies) preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to sekretariat.nic@mailbox.tu-dresden.de or to TU Dresden, Fakultät Psychologie, Neuroimaging Centre, z. Hdn. Fr. Regina Krug, Helmholtzstr. 10, 01069.
Dresden. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

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