The Physikalisch-Technische Bundesanstalt (PTB) is the National Metrology Institute of the Federal Republic of Germany with scientific and technical service tasks. It furthers progress and reliability in metrology for society, the economy and science.

In Department 8.1 "Biomedical Magnetic Resonance", of Division 8, we are looking for a

**Postdoctoral researcher for tissue characterization using MRI**

to join us as soon as possible.

The post is available on the basis of a three-year fixed-term contract. Salary will be paid in accordance with remuneration group 13 TVöD Bund.

You will be employed at our Berlin site.

The Collaborative Research Center (CRC) “Matrix in Vision” will investigate the use of diagnostic imaging technology to visualize pathological changes within the extracellular matrix. The extracellular matrix provides structural support but also regulates cellular processes. Any changes in the extracellular matrix could be an early indication for pathologies and allow for better diagnosis and treatment monitoring.

The department 8.1 is looking for a postdoctoral researcher to develop novel techniques for tissue characterization using MRI (T2*- and susceptibility mapping and pharmacokinetic modelling especially for iron-oxide-based contrast agents). In addition, support for clinical and preclinical studies should be provided.

**What we offer:**
- excellent infrastructure in the center of Berlin with an in vivo 3T whole-body MR scanner on site
- support of an active group of MR scientists with experience in quantitative MR, motion correction, multi-modality imaging and machine learning
- exciting collaboration in a highly interdisciplinary team of clinicians, biologist, chemist and engineers with the opportunity to develop own projects

**Your profile:**
- You have completed your university studies (Master’s or German Diplom) and have obtained a Ph.D. degree of physics, electrical engineering, biomedical imaging or related field with experience in MRI
- You have excellent programming skills (e.g. Python, Matlab, C/C++).
- Previous experience in MRI is required.
- You have a good command of spoken and written English and experience with writing scientific texts.
- You have excellent communication skills and are a team player.
- You are flexible with regard to traveling for business purposes.

For further information with regard to this position, please contact:
Prof. Dr. Tobias Schaeffter, phone: +49 30 3481-7343, e-mail: tobias.schaeffter@ptb.de
Dr. Christoph Kolbitsch, phone: +49 30 3481-7761, e-mail: christoph.kolbitsch@ptb.de

Disabled persons will be given priority if they have the same occupational aptitude.

PTB promotes the professional equality of women and men and is thus especially interested in applications from women.

Within the scope of the job descriptions, PTB offers flexible part-time work schemes in order to support in particular the compatibility of work and family life.

Are you interested?

Then we are looking forward to hearing from you. Please use our application form or send us your application to the following postal address:

Physikalisch-Technische Bundesanstalt
Institut Berlin
Reference number 19-66-8
Abbestraße 2-12
10587 Berlin
Germany

Unfortunately, we cannot accept applications sent via e-mail.

The closing date for applications is 2nd September 2019.

www.ptb.de.