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” and 8.4 “Mathematical Modelling and Data Analysis”, of Division 8, we are looking for a PhD student as part of the European research project “Quantitative MR-based Imaging of Physical Biomarkers (QUIERO)”. The project is available from 1st July 2019 on the basis of a 3-year fixed-term contract. The salary will be paid in accordance with remuneration group 13 TVöD Bund (85%). You will be employed at our Berlin site.

Your tasks:

- Development of a simulation environment for “Magnetic Resonance Fingerprinting (MRF)” data acquisition techniques
- Comparison of accuracy and reproducibility of different state-of-the-art MRF methods
- Development of novel approaches for cardiac MRF
- Close collaboration with clinical experts for in-vivo experiments and with experts in the area of machine learning for data evaluation

Your profile:

- You have a postgraduate qualification (German “Diplom” or master’s degree) in physics, electrical engineering or in a comparable field of engineering/natural sciences.
- You have experience in the area of signal and image processing.
- A basic understanding of MRI is desirable.
- You have an independent and well-structured working style.
- You have a good command of spoken and written English.
- You have excellent communication skills and you are a team player. You will have to travel within Germany and abroad for business purposes.

For further information with regard to this position, please contact:

- Dr. Christoph Kolbitsch, phone: +49 (0) 30 3481-7761, e-mail: christoph.kolbitsch@ptb.de
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- Dr. Gerd Wuebbeler, Tel.: +49 (0) 30 3481-7242, e-mail: gerd.wuebbeler@ptb.de

Click on the following links to learn more about our departments:

- Biomedical Magnetic Resonance
- Mathematical Modelling and Data Analysis

PTB promotes the professional equality of women and men and is thus especially interested in applications from women. Within the scope of the official feasibilities, PTB offers part-time work schemes in order to support applicants in the compatibility of work and family life. Disabled persons will be given priority if they have the same occupational aptitude.

For detailed information, please visit our website: https://www.ptb.de/cms/en/about-us-careers/careers/bms-stellen.html

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

The closing date for applications is 17th May 2019.