

The laboratory for Imaging, Simulation and Stimulation headed by Prof. Dr. Kay Raum at the Berlin-Brandenburg Center for Regenerative Therapies (BCRT) – and the companies GAMPT GmbH and exceeding solutions are opening

1 PostDoc position
1 PhD position
2 Computer Engineering positions
in
Bone Quantitative Ultrasound

The aim of the R&D project is the **clinical translation of a novel high-frequency measurement technique to assess cortical bone quality biomarkers by non-invasive ultrasound**. In contrast to existing bone ultrasound scanners, powerful 3D medical ultrasound scanner systems with single channel acquisition capability will be used within this project. Hard- and software, data acquisition and analysis concepts will be developed and the in-vivo applicability will be evaluated and compared to state-of-the-art high-resolution peripheral computer tomography (XCT II). This network project is funded by the BMBF “KMU-innovativ” program.

The successful candidates hold or will soon receive a master's or a PhD degree in Computer Science, Electrical and Computer Engineering, Physics, or Medical Technology, preferably with some background in experimentation, ultrasound, image and signal processing. It is essential that the candidates have profound programming skills and are willing and motivated to work in an interdisciplinary team of academic and non-academic partners. Additionally, very good communication skills in English (oral and written) are required. We provide an excellent R&D environment.

We are looking for candidates aiming at fostering their own academic/non-academic career. We look forward to receiving your online application including a motivation letter, CV, university transcripts and names and contact details of two references.

In line with the university's policy of equal opportunities, applications from qualified women are particularly encouraged. Handicapped applicants will be preferred in case of the same qualification.

Contact:

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