

## **PhD Position in methodological body diffusion-weighted MRI**

The Department of Diagnostic and Interventional Radiology at the Technical University of Munich (TUM) invites applications for one PhD position in methodological developments for body diffusion-weighted magnetic resonance imaging (DW-MRI). The main aim is the development of novel pulse sequences, image reconstruction, signal modeling and post-processing methods for quantitative diffusion imaging biomarkers assessing tumor microstructure in body oncology patients.

The Radiology Department is equipped with four MRI scanners, including two whole-body 3 T Ingenia Philips MRI systems, one of which is dedicated for research. The student will be part of the Body Magnetic Resonance Research Group in the Radiology Department (<http://www.bmrrgroup.de/>) and will be closely working with radiology, surgery and oncology clinicians within the TUM University Hospital (Klinikum rechts der Isar) and industry partners (Philips Healthcare). The funding for position is intended for the entire duration of the PhD (3 years) and the position is available immediately. The employment is in accordance with TV-L (German Salary Grade 100% TV-L E13)

Applicants should hold a Masters (diploma) degree in Physics, Medical Physics, Biomedical Engineering, Electrical Engineering or in an area related to Medical Imaging. A solid background in signal processing, excellent programming skills in C/C++ and MATLAB/Python and previous experience with data acquisition and analysis are required. The applicant should have good communication skills and be willing to work as a part of an interdisciplinary team of engineers, physicists, and clinicians.

Applications should include (in a single pdf): a cover letter, a curriculum vita, if applicable a list of publications, Bachelor and Master (or diploma) transcripts (including a detailed list of classes and grades obtained) and two references (contact details only).

The position will remain open until filled.

All materials should be sent electronically to:

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