



## Research Position (PhD) in Experimental Magnetic Resonance Imaging

The [Medical Physics Group](#) at the Jena University Hospital invites immediate applications for a **research scientist** (PhD candidate) in the field of **experimental small animal magnetic resonance imaging (MRI)**.

The position (m/f/d, 0.75 TV-L E13, duration of four years) is related to a scientific [project](#) within the newly established interdisciplinary DFG Research Group "Quantifying Liver Perfusion-Function Relationship in Complex Resection – A Systems Medicine Approach" ("[QualiPerf](#)"). The intended official start of the project is April 2021.



We are looking for a highly motivated person to develop, implement and optimize MRI sequence methods for functional abdominal imaging in rats as well as carry out the animal experiments and perform data analyses. We seek to fill the position with an experienced physicist or biomedical engineer or similar, who ideally has a profound knowledge of MRI physics and mathematics, and is motivated for practical work with animals.

The research is carried out in a cooperative and interdisciplinary working environment with many opportunities for independent scientific work. MRI measurements will be conducted on a 9.4T small animal MRI system (Bruker Biospin). The successful candidate should have:

- Curiosity, motivation and readiness for action
- Keen interest in MR sequence programming, data reconstruction, processing & analysis
- Good programming skills (e.g. Matlab, python, C++, etc.)
- Interest and motivation to work with animals (rats) in a research setting
- Strong written and oral English communication skills



Explicit prior experience in MRI and pulse sequence programming would be a bonus. Inquiries about the research project can be directed to [Dr. Karl-Heinz Herrmann](#) or [Prof. Dr. Jürgen Reichenbach](#).

Jena University Hospital is an equal opportunity employer. Women, minorities and individuals with disabilities are encouraged to apply. More information about the Medical Physics Group can be found at our website.

Applications should include a letter of interest, a curriculum vitae, a short summary of past research experience and future research interests; B.Sc./M.Sc. and High School certificates or respective transcripts; a list of publications, and three references (contact details only).

All applications should be sent electronically to Prof. Jürgen R. Reichenbach, Head of Medical Physics Group, Department of Diagnostic and Interventional Radiology, Jena University Hospital, Germany, [juergen.reichenbach@med.uni-jena.de](mailto:juergen.reichenbach@med.uni-jena.de).