



1 PhD and 1 postdoc position in preclinical MRI

Open PhD and postdoc position in preclinical MRI to be filled at the Magnetic Resonance Research Group at the Institute of Medical Microbiology at the Jena University Hospital, Germany.

We are an interdisciplinary team consisting of physicists, biologists and medics working on the development of novel MRI techniques to study the pathogenesis and treatment of infectious diseases in animal models.

3-year PhD (65% E13) or 2-year postdoc position (E13, part time also possible) for a physicist, chemist, biologist or candidates from related fields

with interest in

- CEST contrast agents and CEST techniques
- Multimodal imaging
- Mouse models of infectious diseases (sepsis, endocarditis)

Start date June 2018

2-year postdoc position (E13) in cardiac MRI

The successful candidate should hold a PhD in physics or biomedical engineering with strong background in one or more of the following fields:

- Pulse sequence development and reconstruction
- 4D flow
- In vivo spectroscopy, CEST

Start date June 2018

Available instrumentation and environment:

Access to a 9.4 T small animal MRI system (Biospec with cryoprobe) in cooperation with Prof. Reichenbach, 7T preclinical scanner, fluorescence reflectance imaging system (with X-ray, In-Vivo Xtreme), biohazard S2 environment, mouse facility, biochemical and cell culture lab.

Applications and further information:

Priv.-Doz. Dr. rer. nat. Verena Hoerr (Dipl. Phys.)

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See also

<http://www.mibi.uniklinikum-jena.de/Forschung/AG+Hoerr.html>