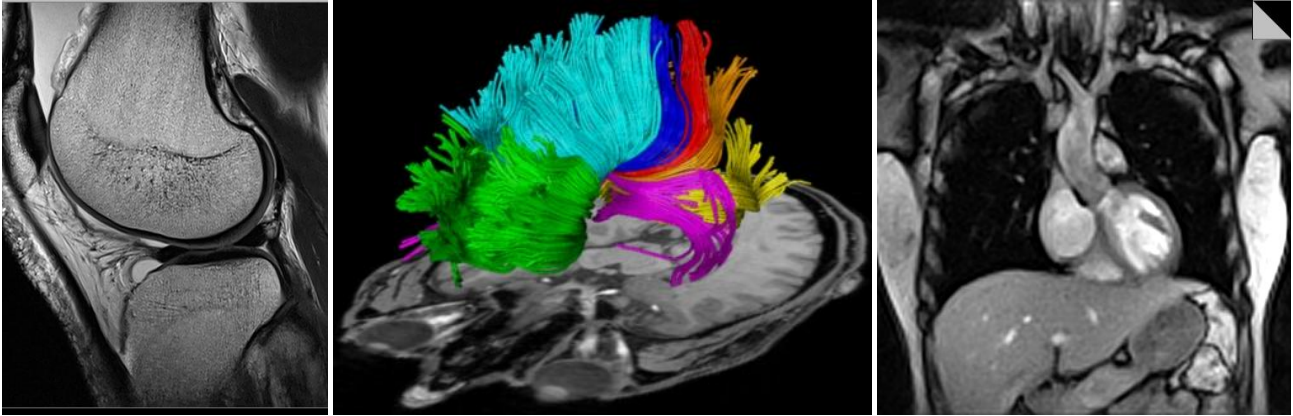


PhD Positions



The Biomedizinische NMR Forschungs GmbH (BiomedNMR) is a research laboratory devoted to the development of spatially resolved nuclear magnetic resonance (NMR) and respective applications for studies of living systems. The group is a non-profit organization associated with the Max-Planck-Institut für biophysikalische Chemie in Göttingen, Germany, and funded by the Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V., München, using royalties from the group's patents.

BiomedNMR comprises an interdisciplinary research team, with expertise from physics to biology and medicine. It is our primary aim to further develop and apply MRI methods that provide novel insights into the anatomy and physiology of animals and humans. Respective research projects range from new acquisition techniques and numerical methods for image reconstruction to functional studies of the human brain. Our core competence combines MRI methodology with interdisciplinary research in the biomedical sciences. Extending into translational research, many of our goals are achieved through strategic collaborations with biological researchers and clinicians.

Open Positions

We are always looking for enthusiastic students with a strong interest in the field of magnetic resonance. If you can imagine to participate in our work by writing your Master or PhD thesis in our group, please do not hesitate to contact us. We are mainly interested in hiring students with a background in physics and a strong competence in C++ programming.

Currently we have several open PhD positions that are most suitable for persons with a background in mathematics, physics, or computer science:

Topic 1: Numerical simulation of stationary and flowing spins under the condition of a real-time MRI experiment.

Topic 2: Multi-echo radial MRI sequences with complementary spatial encodings for accelerated mapping of T2 and T2*.

Topic 3: Undersampled radial 3D MRI sequences.

Topic 4: Undersampled radial FLASH MRI sequences for real-time mapping of T1, perfusion, and heart wall motion (tagging).

Topic 5: Real-time MRI methods for temperature mapping (thermometry).

Topic 6: Multiplexed excitation for real-time MRI.

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