



Max Delbrück Center for Molecular Medicine Berlin, Campus Buch, Germany

The Berlin Ultrahigh-Field MR Facility (Director: Prof. Thoralf Niendorf) at the Max-Delbrück-Center for Molecular Medicine (MDC), Berlin, is seeking enterprising young scientists interested in the basic development and clinical application of ultrahigh-field magnetic resonance imaging (UHF-MRI) as

Doctoral (PhD) or Master Students in Ultrahigh-Field MR Imaging Methodology

The positions involve research on developing MRI techniques including every stage from pulse sequence programming to hardware developments to data analysis and image reconstruction/post-processing. These interdisciplinary efforts are designed to spatially resolve and characterize physiological and pathophysiological processes and mechanisms on the organ, tissue, cellular and sub-cellular level while being transferable from basic research to (pre)clinical studies.

The positions would be well suited for individuals with a strong interest in medical imaging, strong initiative and excellent communication skills. Candidates must have an undergraduate degree in physics, electrical engineering, computer science or, a related discipline. Signal processing and image post-processing experience and expertise in MR pulse sequence development is beneficial.

Opportunities will exist to collaborate with scientists at the Charité' - University Medicine Berlin, the National Metrology Institute (PTB) Berlin, the Leibniz-Institute for Molecular Pharmacology (FMP) Berlin and other academic institutions in Berlin. State-of-the-art MR instruments dedicated to research are available including access to a family of Siemens multiple transmit **7.0 Tesla, a 3.0 Tesla and a 1.5 T whole body system** (in collaboration with the Helios Clinic, Berlin), all equipped with 32 receive channel, and **an 9.4 T animal MR system** (Bruker Biospin). Acces to high-resolution vertical bore **NMR spectrometer** (300 MHz, 400 MHz, 600 and 900 MHz, in collaboration with the Leibniz Institute for Molecular Pharmacology) is also available.

The Max-Delbrück-Center for Molecular Medicine is an equal opportunity employer. For further information please see: www.mdc-berlin.de/BUFF. Interested candidates should e-mail CV and cover letter to: **Dr Davide Santoro** (davide.santoro@mdc-berlin.de)

