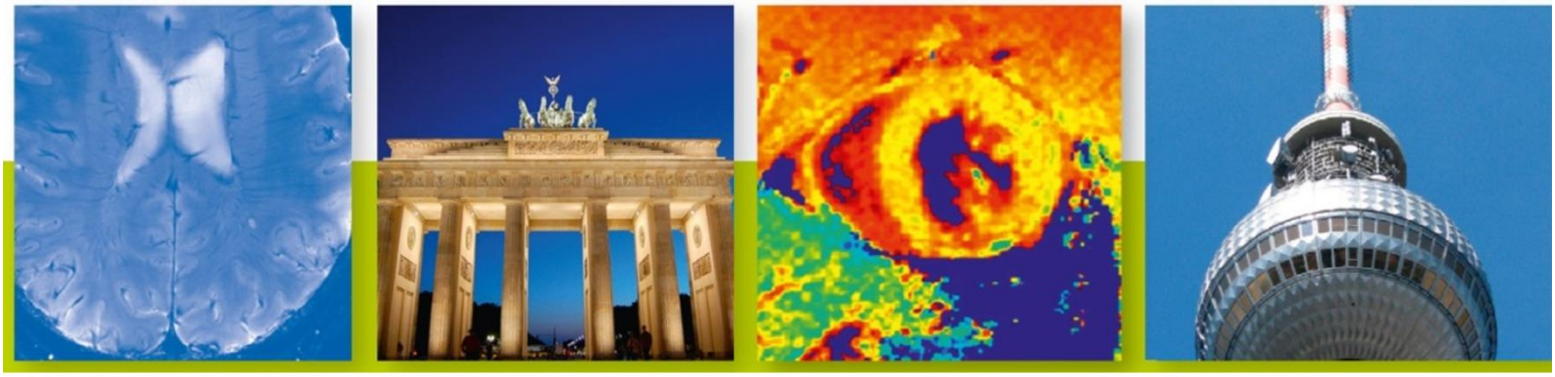

Max Delbrück Center for Molecular Medicine in the Helmholtz Association, Berlin, Germany

The **Berlin Ultrahigh-Field Facility (B.U.F.F)** is seeking scientists interested in the development and clinical application of ultrahigh-field magnetic resonance imaging (UHF-MRI) as

Diploma-, Master-, Bachelor-, Doctoral Thesis Projects in Ultrahigh-Field Magnetic Resonance Imaging

Following Immune Cell Therapies *In Vivo* by Magnetic Resonance Methods

Background

The goal of cellular therapies is to promote regenerative processes or restore malfunctioning cells. General challenges pertaining to cell therapies include delivery techniques as well as establishing methods that non-invasively monitor cell delivery (migration) following application. Our group has made use of fluorine (^{19}F) / proton (^{1}H) magnetic resonance (MR) methods to study the migration of cells in the living organism, with the overall goal to improve cell therapies in disease models. One of our aims is to use, optimize and develop upon the established MR technologies to increase signal sensitivity and improve cell detection limits in order to simplify investigations of cell therapies in different diseases. To reach this goal the candidate will employ ^{19}F-MR methods to study immune cell migration in disease.

Requirements

The positions would be well suited for resourceful individuals with a strong interest in biomedical imaging, resilient initiative and excellent communication skills. For different aspects of the research we are seeking candidates from different disciplines (such as physics, biomedical engineering, electrical engineering, computer science, pharmacology, molecular biology) who are intent to boldly go beyond their first university training.

The Max-Delbrück-Center for Molecular Medicine is an equal opportunity employer. For further information please see: buffportal.mdc-berlin.de

Interested candidates should e-mail CV and cover letter to:

Dr. Sonia Waiczies (sonia.waiczies@mdc-berlin.de)

B.U.F.F. Berlin Ultrahigh Field Facility

MDC MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE IN THE HELMHOLTZ ASSOCIATION

HELMHOLTZ ASSOCIATION