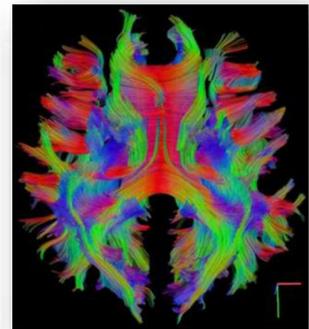
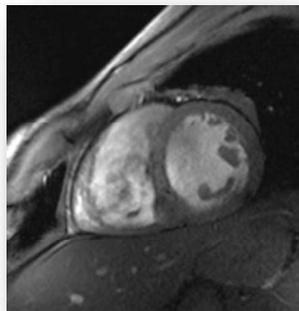




The [Department of Cardiovascular Imaging of the Comprehensive Heart Failure Center](#) develops, deploys, and performs research on a variety of biomedical imaging technologies, in particular ultra-high-field MRI of the heart and organs interacting with the heart (e.g. brain). Imaging research is supported by an RF-lab for MRI hardware developments, high-performance computational cardiology and using of artificial intelligence methods for imaging data processing. We operate the **Siemens Magnetom Terra 7T** MRI system with parallel transmit and multi-nuclei-imaging support. The Bruker **Pharmascan 70/16** MRI 7T system is available for the pre-clinical studies. By special organizational measures full translational imaging workflow, i.e. from mouse over pigs to humans (and back), is available. Further in-house experimental imaging modalities are small animal PET and SPECT/CT as well as ultrasound. Other clinical imaging modalities (3T MRI, PET/CT, US, etc.) are available through close local collaborations with other departments of Würzburg University and University Clinics.



We search a **PhD student candidate** for working on cutting-edge 7T MRI methods. The ideal candidates would be an enthusiastic, visionary and collaboration-oriented scientists with an intrinsic scientific motivation.

PhD student (65% position, 4 years) is available immediately for running the MRI section of the Small Animal Core Facility of CRC *“Cardo-Immune-Interfaces”*. The focus will be on establishment a routine cardiac  $^1\text{H}$  MRI and  $^{19}\text{F}$ -labeled cell MRI in mice on the **Bruker PharmaScan** system. The main activities will be focused on:

- Optimization of standard cardiac MRI protocols for small animals
- Development pulse sequences and protocols for cardiac  $^{19}\text{F}$  MRI with labeled cells tracking
- Performing routine small animal MRI measurements in the frame of Core Facility service

Contributions to acquisition of third-party funding, supervision technical assistant and MD doctoral students, close collaboration with the members of CRC, medical doctors, veterinarians and further scientists will be expected. The position is immediately available. Payment will be according to German public service grade table (TV-L E13).

Disabled applicants will be considered preferentially in case of equivalent qualifications.

Applicants should submit their application documents (motivation letter, full CV including certificates, names and addresses of two references) in a single PDF file via the following contact persons: Prof. Laura Schreiber ([Schreiber\\_L@ukw.de](mailto:Schreiber_L@ukw.de)) and Dr. Maxim Terekhov ([Terekhov\\_M@ukw.de](mailto:Terekhov_M@ukw.de)).