

The **Comprehensive Heart Failure Center Würzburg** (CHFC) is an Integrated Research and Treatment Center supported by the German Ministry of Education and Research. More than 120 scientists conduct interdisciplinary basic, translational, and clinical research and provide innovative patient care in the field of prevention of heart failure and its medical complications. The CHFC's vision is to improve the awareness of heart failure as an urgent health challenge in society, to connect existing excellent basic science and clinical research and to implement preventive strategies for diagnostics and management as well as new therapies. The CHFC comprised of four departments, i.e. imaging, translational research, genetics, and clinical research, several other working groups, and a wealth of collaborations to other clinics and workgroups.

The CHFC seeks to appoint a

PostDoc or Experienced Doctoral Student for Translational Cardiac MRI at 7T

Physics/Biomedical Engineering/Medicine/Veterinary Medicine

The Department of Cardiovascular Imaging develops, deploys, and performs research on a variety of biomedical imaging technologies, in particular ultrahighfield MRI of the heart and organs interacting with the heart (i.e., brain). We have a fully equipped RF lab and perform AI and computational fluid simulations to analyze images for precision imaging, and/or to better understand cardiac disease and (patho-) physiology. We operate a Siemens Magnetom Terra 7T MRI system, as well as a Bruker Pharmascan 70/16 experimental MRI system. A unique research infrastructure ([Schreiber LM et al, Front Cardiovasc Med 2023](#)) allows imaging with all objects relevant in translational cardiovascular research, i.e. from cardiac organoids, rodents to large animals and humans.

We seek a postdoctoral or doctoral scientist to advance pulse sequences and imaging protocols for cardiac 7T MRI in clinical and research applications.

The ideal candidate would be an enthusiastic and collaboration-oriented scientist with a motivation to push forward this exciting field. Prior experience in Siemens IDEA and/or Pulseseq pulse sequence development environments, protocol optimization, clinical studies in an imaging science context, and/or in large animal models, would be helpful. Collaboration in an interdisciplinary team of physicists, engineers, and medical doctors from a wide variety of medical disciplines should be considered as an opportunity.

We offer a full-time post-doctoral position with market conform wages (TVL-E13 or TVL-E13 50%) in a multidisciplinary research center in the heart of Europe. The position is immediately available. Payment will be according to individual qualifications and TV-L. Disabled applicants will be considered preferentially in case of equivalent qualifications.

Applicants should submit **until September 25** their complete application documents (full CV including certificates, motivation letter, names and addresses of two references) in a single PDF file to: Comprehensive Heart Failure Center, Am Schwarzenberg 15, Haus A15, 97078 Würzburg, preferably via email (all together in one single PDF document) to Prof. Dr. Laura Schreiber (schreiber_l@ukw.de). For further information please visit <https://www.ukw.de/forschung/forschung-dzhi/department-bildgebung/> or [Schreiber LM et al, Front Cardiovasc Med 2023](#).