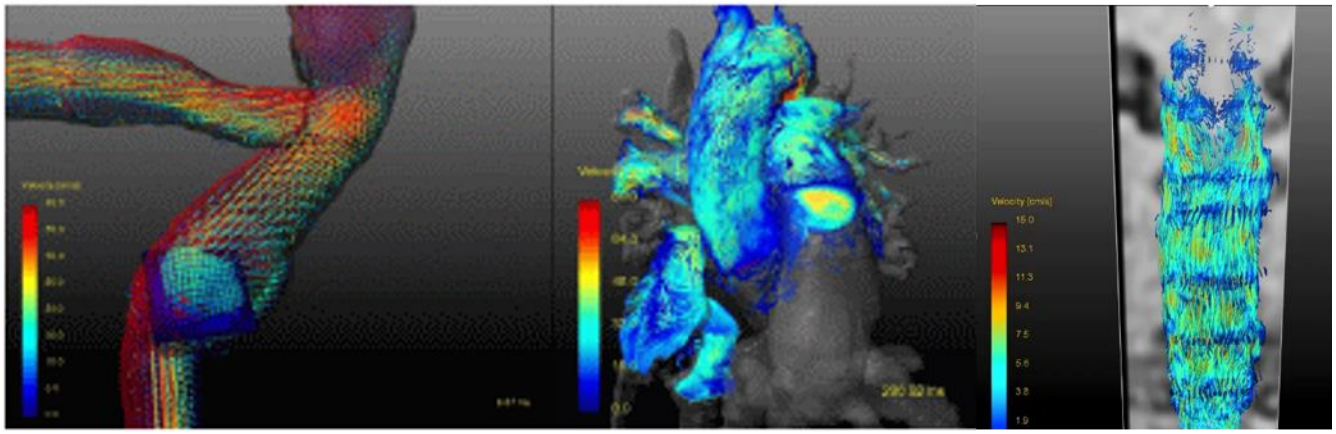
Ph.D. student in biomedical imaging (MRI)

University of Cologne, Germany



The University of Cologne offers a wide range of scientific disciplines and internationally leading profile areas organized in six faculties. At the Faculty of Medicine 1.800 scientists are engaged in research, ranging from basic sciences to clinical application, as well as teaching and health care. Together with the University Hospital Cologne the faculty maintains 58 clinics, research institutes and centres. 3.400 students study in this dynamic and innovative environment. The Faculty of Medicine and the University Hospital Cologne are embedded in the scientifically highly active Rhine region. They have strong contacts to and alliances with the surrounding universities and non-university research institutions guaranteeing scientific excellence in research and teaching.

The MRI Physics group within the Department of Radiology is seeking to appoint a PhD student (f/m).

The Department of Radiology is extremely well equipped, counting 8 state-of-the-art MRI scanners (Philips Healthcare) and embeds several research groups (Multiparametric MRI, Cardiovascular Imaging, Oncological Imaging, MR-HiFU, MRI Physics, Preclinical Imaging, Post-Processing).

Our research focusses on the development of novel and clinically feasible MRI methods to accelerate dynamic imaging, motion-compensation techniques using self-gating and non-Cartesian imaging as well novel contrast mechanisms to measure blood and/or cerebrospinal fluid velocities.

You should have an excellent master's degree in physics, mathematics, electrical engineering or comparable area of natural sciences or engineering. Candidates should have expertise in computer programming (e.g. Matlab, C++). Specific knowledge in medical imaging and/or computational fluid dynamics is an asset.

Applications from female candidates are welcome; suitably qualified women will be given preferential consideration unless other applicants clearly demonstrate superior qualifications. We also welcome applications from disabled candidates, who will also be given preferential consideration over other applicants with comparable qualifications. The position is suitable for staffing with part-time employees.

You will be paid in accordance with TV-L-West E13 (65%) for initially 3 years and registered in one of the University's graduate school.

If you are interested in joining our group, please send an e-mail with your application (including a detailed CV, list of publications and a brief statement of research interests) to daniel.giese@uk-koeln.de.

Starting date is as soon as possible.