

Research Position (PhD or Postdoc) in musculoskeletal Magnetic Resonance Imaging

The [Medical Physics Group](#) at the Jena University Hospital invites immediate applications for a **Research Scientist** (PhD student or Postdoc) in the field of musculoskeletal magnetic resonance imaging (MRI).

The position (m/f/d, 0.75 TV-L E13, duration of three years) is part of a newly established interdisciplinary DFG-funded research project entitled: "Assessment of the in vivo dynamics of knee joint tissue deformations – A technological basis to identify and understand structural and compositional changes in early onset osteoarthritis after injury". The intended start of the project is April 2022.



We are looking for a highly motivated scientist to develop, implement and optimize MRI based segmentation for morphometry/morphology measurements and parameter mapping of tissues of the knee joint. The appointee will also lead the experiments, including study design, data collection, image reconstruction and analysis. The ideal candidate will be an experienced Computer Scientist, Physicist or Biomedical Engineer (or similar) who has profound knowledge of segmentation techniques and a background in programming and algorithm development.

The research will be carried out in a cooperative and interdisciplinary working environment, with many opportunities for independent scientific work. MRI measurements will be conducted on a 3.0T clinical MRI system (Siemens Healthineers).

The successful candidate should have:

- Excellent programming skills, preferably in Python or Matlab
- Interest in MRI data reconstruction, processing & analysis
- Curiosity, motivation and readiness for action
- Strong written and oral communication skills in English



Jena University Hospital is an equal opportunity employer. Women, minorities, and individuals with disabilities are encouraged to apply.

Applications should include a letter of interest, a curriculum vitae, a short summary of past research experience; BSc/MSc/PhD certificates or transcripts; a list of publications, and the names and contact information for two references.

Applications should be sent electronically to Dr. Martin Krämer, Research Associate at the Medical Physics Group, Department of Diagnostic and Interventional Radiology, Jena University Hospital, Germany, Martin.Kraemer@med.uni-jena.de.

More information about the Medical Physics Group can be found on [our website](#).