



The University of Tübingen, Department of Radiation Oncology (with section for Biomedical Physics) and Department for Interventional and Diagnostic Radiology (with section for Experimental Radiology), offer

three PhD positions (65%, TV-L)

one Postdoc position (100%, TV-L)

one Clinician Scientist position (100%, TV-Ä)

The positions are part of a joint interdisciplinary research program on Magnetic Resonance guided Radiation Therapy (MRgRT), funded by the German Research Council (DFG PAK 997/1-1) and supported by the Medical Faculty Tübingen. The positions are limited for 2 years, continuation for a third year is intended.

Description of the positions/projects:

Tübingen is an internationally leading site in clinical implementation of MRgRT. Through funding by the DFG the first 1.5 T MR-linear accelerator in Germany started in 2018. Our research program aims at unravelling the potential and limitations of online adaptive MRgRT in patients with head and neck, prostate, liver and rectal cancer. Projects include development of novel quantitative MR imaging sequences, predictive models for tumor response and toxicity, deformable dose accumulation, 4D-MR imaging techniques as well as data analysis using machine learning approaches.

Qualification requirement for the PhD positions:

- Master's degree with a strong academic background in physics, medical physics (especially MRI/MRS and/or radiation physics), computer science or a similar discipline.
- Ideally experience in image processing, computer programming skills in C++, Matlab, Python or similar.

Qualification requirement for the Postdoc position:

- PhD in physics, medical physics, computer science or a similar discipline.
- Strong background in medical radiation physics, MRI/MRS and image processing.
- Experience in machine learning techniques.
- Ideally experience with combined MR-Linac technology.
- Good programming skills in C++, Matlab, Python or similar

Qualification requirement for the clinician scientist position:

Experience in translational and clinical research. At least two years of residency in Radiation Oncology completed.

We are looking for candidates with interest in this unique interdisciplinary team effort in medical and imaging physics, translational oncology and computer science.

We offer remuneration in accordance with TV-L / TV-Ä (collective wage agreement for the Public Service of the German Federal States) in addition to all the customary benefits granted to employees working in Public Services. Severely handicapped persons with equal qualifications are given preferential consideration. The University of Tübingen is anxious to increase its quota of female scientific staff, and therefore emphatically requests women to apply for this position. The Administration of the University hospital is responsible for all employment matters. Personnel appointments will be made pursuant to the fundamental stipulations of the legal statutes for universities in Germany. Interview expenses are not covered.

Applications with a motivation letter, full CV, academic diplomas and transcripts, publication list and two contacts for further references should be sent online to daniela.thorwarth@med.uni-tuebingen.de.

Application deadline 30th June 2020

For further information please contact Daniela Thorwarth:
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