

## Job Advertisement:

# PhD Candidate (m/f/d) in MR Imaging of Prostate Cancer

Institute of Radiology and Nuclear Medicine

in collaboration with

Institute of Medical Engineering – University of Luebeck

Lübeck offers an exceptional environment for pursuing a PhD — combining academic excellence with a high quality of life in one of Germany's most beautiful historic cities. Located directly on the Baltic Sea, Lübeck provides an inspiring setting for research, innovation, and personal development.

Compared to larger metropolitan areas, Lübeck offers affordable living costs, short commuting distances, and an excellent work-life balance — making it an ideal location for international doctoral candidates seeking both scientific excellence and a high standard of living during your PhD journey.

**We are looking for a PhD candidate in MRI imaging for prostate cancer research.**

Prostate cancer is the second leading cause of cancer-related death among men worldwide. In recent years, magnetic resonance imaging (MRI) has become an indispensable tool for the detection and treatment of prostate cancer. In particular, diffusion-weighted imaging (DWI), alongside T2-weighted and dynamic contrast-enhanced (DCE) imaging, is a key component of multiparametric MRI of the prostate. Compared to other well-studied anatomical regions, the potential of DWI in prostate imaging may still be underestimated and could be further exploited to gain insights into the prostate microstructure, especially in patients with complex tissue compositions.

### Join Our Team

Become part of our team and support us at the earliest possible date. The position is initially limited to 3 years.

### What We Offer

- Salary according to pay grade E13 TV-L, subject to fulfillment of the collective agreement requirements
- Full-time position, currently 25 hours/week
- Attractive company pension scheme for long-term security
- Additional exciting benefits from UKSH: Benefits ([uksh.de](https://www.uksh.de/benefits))

### Your Responsibilities

- Research and application of novel diffusion MRI methods for the characterization of microscopic tissue structure
- Conducting and evaluating MRI experiments with a focus on prostate cancer (with opportunities for further application areas)
- Working with state-of-the-art clinical MRI systems at 1.5 T and 3 T (Siemens), including one 3-T system dedicated exclusively to research
- Development and adaptation of MRI sequences using source code access in cooperation with Siemens Healthcare
- Close collaboration with clinical partners and integration of radiological expertise through UzL and UKSH

### Your Qualifications

- Master's degree in Physics, Engineering, or a closely related field
- Experience in programming MRI pulse sequences would be highly advantageous
- Excellent written and spoken English skills are essential; German language skills are desirable

In the near future, you will find our job advertisement at **UKSH Jobs**

