# Research Training Group / Graduiertenkolleg GRK2274
# “Advanced Medical Physics for Image-Guided Cancer Therapy”

## PhD positions available (m/f/d)

The DFG-funded Research Training Group GRK2274 "Advanced Medical Physics for Image-Guided Cancer Therapy" is a joint initiative of the Physics and Medical Faculties of the Ludwig-Maximilians-Universität München (LMU) and the Technische Universität München (TUM) as well as the Helmholtzzentrum München.

In this context, we offer PhD positions in Physics, Biomedical Engineering and Informatics for working on a wide range of multi- and interdisciplinary projects in the major areas of computing (Monte Carlo simulations, medical image computing, machine learning), imaging (phase-contrast CT, spectral CT, functional PET and MRI) and therapy (adaptive radiotherapy, particle therapy, photodynamic therapy, radionuclide therapy). All projects share the common goal of advancing image-guided cancer treatment by fostering improvement in detection and characterization of tumour and normal tissue as well as optimization of treatment planning and delivery.

Admission to the program will enable pursuing cutting-edge fundamental, translational and clinical research in the above-mentioned areas, and will include an original qualification concept featuring a broad spectrum of compulsory and eligible training activities, to ensure not only academic excellence and scientific independence, but also the development of fundamental personal effectiveness. The successful candidates will work in highly motivated and well established teams within a multidisciplinary and international network embedded in a stimulating scientific environment with a long tradition of collaboration and excellence in biomedical research, with outstanding research and clinical infrastructures. Depending on the project, the working place will be at the Forschungszentrum Garching, the Munich University Hospitals (Klinikum Großhadern and Klinikum rechts der Isar), or the Helmholtzzentrum München. All locations are well connected with public transportation to the central city of Munich, Germany. The aimed salary will be 75% TV-L E13. Each PhD project will usually take 36 months. More information can be found on www.grk2274.de.

Ideal candidates should hold a highly ranked Master of Science (MSc) in Physics, Biomedical Engineering or Informatics, be fluent in English, have knowledge of medical physics, and possess technical proficiency and scientific creativity. Disabled candidates are preferentially considered in case of equal qualification. Applications from women are encouraged.

To apply for a position, please submit your electronic application (letter of motivation, curriculum vitae, last school certificate, university degree including grades, publication list, other qualification certificates, and two contacts for letters of recommendation) **until 31.07.2021** via our online application system at https://www.grk2274.de/application/a8b9f9eaed62b02e.

*For general questions please contact our scientific coordinators:*
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