LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

Technical University of Munich

HelmholtzZentrum münchen
Deutsches Forschungszentrum für Gesundheit und Umwelt

DFG-Funded Research Training Group / Graduiertenkolleg GRK 2274 "Advanced Medical Physics for Image-guided Cancer Therapy"

13 PhD positions available

In 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, the Research Training Group / Graduiertenkolleg GRK 2274 "Advanced Medical Physics for Image-Guided Cancer Therapy" funded by the German Research Foundation (DFG) will become operational on October 1st, 2017 (Speaker: Prof. Dr. Katia Parodi, Vice Speaker: Prof. Dr. Franz Pfeiffer).

In this context, we offer 13 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 improvements 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 main areas, and will also 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 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, scientific creativity, fast adaptation to new problems and fruitful collaboration with international and multidisciplinary working teams. Prior experience in software programming and Linux and Windows operating systems is favorable. Disabled candidates are preferentially considered in case of equal qualification. Applications from women are encouraged.

To apply for a position, please send your electronic application **(letter of motivation, curriculum vitae, last school certificate, university degree including grades, publication list, other qualification certificates like TOEFL, and two recommendation letters including contact information of your references) until 06.08.2017** via our online submission system at**:**

http://portal.graduatecenter-lmu.de/ocgc/grk2274

For general questions please contact our scientific coordinators:

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