

PhD student position in PET detectors

Nuclear Medicine Department at Klinikum rechts der Isar/TUM (Munich, Germany)

The Department of Nuclear Medicine at TUM is operating PET/CT, PET/MR, SPECT and SPECT/CT for clinical imaging as well as PET/CT and MRI for preclinical studies. Strong interdisciplinary research activities in multimodal imaging are focusing on oncological, neurological, and cardiological questions.

Our detector lab has experience in high-resolution PET detectors, system design, and image reconstruction. Previous research has introduced APDs to preclinical PET detectors.

In close cooperation with the physics department at TUM, we are currently developing a high resolution small animal PET insert to be used in a 7T MR scanner (GE Agilent) for simultaneous PET/MR acquisitions. The detector is based on dual layer LYSO crystals with one-to-one coupling to silicon photomultipliers.

We are looking for a talented and highly motivated individual to join our group for this challenging project. The candidate will mainly work on the hardware developments including detectors and electronics. Some knowledge about PET detectors, detectors used in nuclear physics or electronics is highly desired. Experience in GATE will be useful.

The successful candidate must have a relevant MSc degree (or equivalent), e.g. in the field of physics or engineering. Good level of English and the ability to work in a team are essential.

The application should consist of a letter describing the applicant, her/his background and research interests, 2 academic references as well as a CV and copies of academic grades.

For more information, please contact: Dr. Jorge Cabello or Prof. Dr. Sibylle Ziegler, e-mail: jorge.cabello@tum.de/sibylle.ziegler@tum.de