



PhD Student in Physics/Engineering (f/m/d)



The Department of Preclinical Imaging and Radiopharmacy is an internationally renowned group at the forefront of preclinical imaging research focusing on new tracers and biomarkers as well as on in vivo biomedical research utilizing novel imaging technology and developing the next generation of Positron Emission Tomography (PET) scanners and multimodality imaging equipment.

To strengthen our team, we're currently looking for a

PhD student (f/m/d) in imaging instrumentation and detector development

65 % part time. The contract will be set up for 1 year with the plan for further extension after a successful evaluation.

Our Department is pioneering the development of nuclear and multimodality imaging instrumentation, such as PET or the combination of PET and magnetic resonance imaging (MRI). For the detection of PET events we use novel silicon photomultipliers (SiPM), high performance electronics as application specific integrated circuits (ASIC) and field programmable gate arrays (FPGAs) as well as innovative scintillators. We work closely together with large national and international imaging instrumentation providers to translate our developments for clinical applications. Furthermore, we are working together with high energy physics groups and thus we additionally utilize our high-performance detectors for particle physics experiments. A close collaboration between our department and the physics department of the University Tuebingen is established.

We are looking for: enthusiastic and dedicated candidates, eager to work and evolve in a highly interdisciplinary environment with chemists, biologists, engineers, physicists, and physicians. The ideal candidates should hold a diploma or Master degree in physics, electrical engineering, biomedical engineering or related fields. The successful candidate should be interested in the development of prototype PET detectors, which involves hardware development, electrical circuit design, software development and applications. Preferably the candidate has basic skills in electrical circuit design and experience with layout of printed circuit boards (PCB) as well as programming (MATLAB). Knowledge in the field of imaging physics is not mandatory. The candidate should be willing to cooperate with partners from academia and industry.

Opportunities: We offer to work on a high scientific level in an experienced and well-funded research team with an excellent interdisciplinary infrastructure providing state-of-the art life science and clinical environment. We offer the opportunity to publish in leading international journals and present the research to an international scientific community. Furthermore, we are connected to a strong network providing an excellent platform to cooperate with local, national and international research labs.

Interested candidates should apply with a complete CV (including photograph and date of birth), all certificates and grades of University educations and potential jobs/interns as well as the names and contact details of at least one referee (former professor/advisor/mentor).

We offer remuneration in accordance with TV-L (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.

For questions, please contact Office WSIC, Tel.: 07071 29-87443, E-Mail: Office.WSIC@med.uni-tuebingen.de

Application Deadline: **30.06.2021**

Please send your application documents **exclusively as PDF** attachments by e-mail **quoting the reference number 11130**: to:

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Präklinische Bildgebung und Radiopharmazie
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