



## PhD student (w/m/d)



The Department of Preclinical Imaging and Radiopharmacy (Director Prof. Bernd Pichler) at the University Hospital of the Eberhard Karls University Tübingen competes and collaborates on scientific top level in preclinical imaging with international research groups. The research group of Prof. Dr. Johannes Schwenck (Translational and Preclinical Imaging in Inflammation & Cancer) offers a position for a

### **Phd student (w/m/d)**

in the field of Immunoimaging (Preclinical Imaging and Radiopharmacy/Nuclear Medicine). The parttime position (65 %) is initially limited to one year with plans for further extension.

### **Research focus:**

Over the past decades, cancer research has aimed to understand how tumors evade innate and adaptive immune responses. In recent years, we have developed and evaluated approaches for molecular imaging of the cellular immune infiltrate with translational application in both preclinical research and clinical trials. In this project, we aim to elucidate immune cell migration and interactions in the tumor microenvironment and lymphoid organs using innovative imaging approaches in preclinical animal models to understand the mechanisms of immune response and escape.

The PhD student will use innovative in-vivo preclinical imaging approaches based on combined PET/MR imaging together with in-vitro methods such as state-of-the-art multispectral flow cytometry to shed new light on the tumor microenvironment. In addition to the use of preclinical mouse models, the candidate will participate in clinical and basic science projects involving patient cohorts. The work will be performed as part of a highly motivated, international and multidisciplinary team and will contribute to ongoing research efforts.

In the long term, this work will contribute to the establishment of new approaches for clinical diagnosis and therapy stratification to enable novel, powerful and individualized treatment approaches to prevent cancer immune escape.

#### **Your qualifications:**

We are looking for enthusiastic and highly motivated candidates eager to answer highly relevant biomedical questions and evolve in a multidisciplinary environment with biologists, chemists, physicists and physicians notably using state of the art imaging techniques. The candidate should ideally possess scientific expertise in immunology, molecular biology/medicine, or biochemistry demonstrated by an excellent Master of Science in a relevant field and a keen interest in preclinical imaging sciences.

Previous experience with molecular and cell biology techniques (e.g. cell culture, flow cytometry, western blot) is essential. Hands on experience with preclinical PET, MRI or CT imaging is a plus but not a requirement. Knowledge of tumor immunology and working with small animals, especially in-vivo models of diseases, are considered beneficial. Prior work with animals and a FELASA certificate would be useful but not essential.

As the student will work in an international team and will participate in international conferences, fluency in English is an essential requirement. The successful candidate can grow in a lively and interactive working atmosphere within a well-connected network of PhD students and scientists in the dynamic city of Tübingen.

#### **Your benefits:**

Vibrant and international research environment  
Efficient supervision and mentoring program  
Ability to gain knowledge in novel technologies and soft skills

We offer remuneration in accordance with TV-L (collective wage agreement for the Public Service of the German Federal States), severely handicapped persons with equal qualifications are given preferential consideration. We emphatically request women to apply for this position. Interview expenses are not covered. Please note the applicable vaccination regulations. Personnel appointments will be made pursuant to the fundamental stipulations of the legal statutes for universities in Germany.

For more information, please visit:

<http://www.isct.uni-tuebingen.de/wsic/>

and

<https://www.medizin.uni-tuebingen.de/de/das-klinikum/einrichtungen/kliniken/radiologie/nuklearmedizin>

Application deadline: **31.10.2024**

Please upload your full application documents (CV, certificates, application letter, references) quoting the **reference number 5131** by following the link: [https://jobs.medizin.uni-tuebingen.de/Job/5131/PhD-Student-\(f-m-d\)](https://jobs.medizin.uni-tuebingen.de/Job/5131/PhD-Student-(f-m-d)) and pressing the “Apply Now” button.

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