

PhD Student Position in Preclinical Imaging (PET & MRI)

We are seeking a highly motivated **PhD student** to join our research team in the field of **radiopharmaceutical sciences**, with a focus on **positron emission tomography (PET)** and **magnetic resonance imaging (MRI)**. This position is part of an **FWF-funded project**, starting in **spring 2025**, which aims to explore alternatives to animal models (in line with the **3Rs principle**) for assessing the **blood-brain barrier (BBB) penetration** of radiopharmaceuticals.

Key Responsibilities:

- Conduct in vitro experiments, including cell assays, tissue autoradiography, and histology.
- Perform in vivo research using molecular imaging techniques (PET and MRI) to explore biological and pharmacological questions.
- Contribute to the design and execution of experiments, including data collection, analysis, and pharmacokinetic modeling.
- Collaborate in a multi-disciplinary research environment with interdisciplinary teams of experts.

Required Qualifications:

- Master's degree in veterinary medicine, biology, pharmacy, or a related field.
- Knowledge of imaging devices, particularly PET, is advantageous.
- Strong interest in radiochemistry and molecular imaging.
- Motivation to work in an interdisciplinary research environment and a passion for advancing scientific knowledge.
- Willingness to carry out preclinical experiments.
- Previous experience in animal handling or the HET-CAM assay is desirable but not mandatory.

Training and Support:

- Training in handling radioactive materials and radiation protection will be provided.
- FELASA certification in laboratory animal science can be acquired as part of the PhD curriculum.
- Access to state-of-the-art imaging facilities and guidance from experienced mentors in the field of preclinical imaging and radiopharmaceutical sciences.

Position Details:

- Duration: Three years.
- Salary: The position corresponds to a 30-hour/week commitment and is paid according to the Austrian Science Fund (FWF) guidelines.
- Location: The research will be conducted at the Preclinical Imaging Laboratory and the Division of Nuclear Medicine at the Medical University of Vienna, Austria.
- Education: The position will be part of the PhD Program N094 Medical Imaging at the Medical University of Vienna.

How to Apply:

Interested candidates should submit their **CV**, a **cover letter**, and **references** by **March 15th, 2025** to theresa.balber@meduniwien.ac.at Please highlight your relevant experience, motivation, and why you are interested in this position. If a suitable candidate is found before the deadline, the position will be closed earlier.