

Senior PostDoc Position in Fully-Quantitative PET Imaging

The **Center for Medical Physics and Biomedical Engineering (CMPBME)** at the **Medical University of Vienna (MUV)** invites applications for a **Senior PostDoc Scientist** to join the **Quantitative Imaging and Medical Physics (QIMP) Team**.

We seek a highly motivated individual with expertise in **hybrid PET imaging technology**, including **data acquisition, correction, image reconstruction, and quantification**. The ideal candidate will have a strong background in the methodological foundations of PET imaging, from nuclear physics to advanced data analysis.

As a senior scientist, you will:

- Lead and support research projects in **fully-quantitative PET imaging** protocols (e.g., ultra-low-dose, dynamic, non-FDG tracers).
- Engage in **clinical research** using state-of-the-art **total-body PET/CT imaging** (Siemens Vision Quadra).
- Contribute to the overarching theme of “**whole-person research**”, employing dynamic, whole-body PET imaging to explore inter-organ communication.
- Co-supervise **PhD projects** and pursue innovative research aligned with the team’s mission.

The position offers access to cutting-edge imaging facilities, including **whole-body PET/MRI, PET/CT, and SPECT/CT systems**, alongside non-imaging data (e.g., genomics, IHC). You will collaborate with interdisciplinary teams across clinical and research departments. In particular, your position will be part of a close collaboration with the **Division of Nuclear Medicine** and their **Data Science Core Lab**.

Qualifications:

- PhD in **Physics, Engineering, Mathematics, or Software Engineering**.
- Proven expertise in **quantitative PET imaging** and **image reconstruction**.
- Core understanding of **kinetic modelling** and **parametric imaging**.
- Proficiency in programming (e.g., **C/C++, Python, MATLAB**).
- Strong communication skills, team spirit, and fluency in English.
- Awareness of **clinically applied research**.

This is a **2-year position** (extendable) starting in **Q2/2025**. The CMPBME fosters a collaborative, multidisciplinary environment with over 50 staff members and numerous graduate students, dedicated to advancing medical imaging and therapy.

For inquiries and applications, contact: thomas.beyer@meduniwien.ac.at.

Join us to shape the future of **fully-quantitative PET imaging** and contribute to groundbreaking research at the intersection of medical physics and clinical innovation.

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