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PhD Position in Translational molecular imaging

The Department of Nuclear Medicine at the University of Bern invites applications for a PhD position in nuclear medicine imaging. We are seeking highly motivated candidates with a background in molecular imaging, radiobiology, molecular biology, neurobiology or related disciplines, who are interested in working within an interdisciplinary and international research environment. The successful candidate will contribute to the development and establishment of cutting-edge imaging technologies and tracers for diagnostic imaging.

The Department of Nuclear Medicine at the University of Bern is one of the leading nuclear medicine centers in Europe. It is equipped with two ultra-high-sensitivity long axial field-of-view (LAFOV) PET scanners, an advanced full-ring CZT SPECT system will be installed in 2026, small animal PET/SPECT/CT, and multiscale multimodal imaging system. The department is also the largest radioligand therapy center in Switzerland and plays a pioneering role in the development of advanced experimental imaging platforms. It is embedded in a strong clinical, preclinical, and biomedical engineering research ecosystem in Bern, with extensive national and international collaborations.

The PhD project will focus on the development of novel PET imaging tracers, including:

- On-chip PET imaging
- Small animal PET/SPECT/CT
- Organoid, NAMs,
- Radiopharmacy
- Multiscale multimodal imaging

The position offers a salary in accordance with the University of Bern salary scheme. Applicants are expected to have:

- Strong communication and collaboration skills
- A good command of English
- High motivation for fundamental imaging physics and instrumentation research

In-depth knowledge in at least one of the following areas is required:

- Analog and digital electronics, including signal processing for radiation detection systems

Applicants are requested to send a motivation letter, CV and the names and two recommendation letters to Prof. Dr. Ruiqing Ni and Prof. Dr. Axel Rominger, email: ruiqing.ni@unibe.ch and axel.rominger@insel.ch before April. 30st, 2026.

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PhD Position in Nuclear Medicine Physics & Instrumentation

The Department of Nuclear Medicine at the University of Bern invites applications for a PhD position in nuclear medicine imaging physics and instrumentation. We are seeking highly motivated candidates with a background in nuclear physics, engineering physics, or related disciplines, who are interested in working within an interdisciplinary and international research environment. The successful candidate will contribute to the development and establishment of cutting-edge imaging technologies and methods for nuclear medicine theranostics.

The Department of Nuclear Medicine at the University of Bern is one of the leading nuclear medicine centers in Europe. It is equipped with two ultra-high-sensitivity long axial field-of-view (LAFOV) PET scanners, and an advanced full-ring CZT SPECT system will be installed in 2026. The department is also the largest radioligand therapy (RLT) center in Switzerland and plays a pioneering role in the development of advanced experimental imaging platforms for RLT. It is embedded in a strong clinical, preclinical, and biomedical engineering research ecosystem in Bern, with extensive national and international collaborations.

The PhD project will focus on the development of novel PET imaging technologies, including:

- On-chip PET imaging
- Positronium lifetime imaging
- Quantum entanglement-based PET imaging

The position offers a salary in accordance with the University of Bern salary scheme. Applicants are expected to have:

- Strong communication and collaboration skills
- A good command of English
- High motivation for fundamental imaging physics and instrumentation research

In-depth knowledge in at least one of the following areas is required:

- Particle physics, radiation detection physics, semiconductor detector technologies, or quantum physics
- Analog and digital electronics, including signal processing for radiation detection systems

Applicants are requested to send a motivation letter, CV and the names and two recommendation letters to Prof. Dr. Kuangyu Shi and Prof. Dr. Axel Rominger, email: kuangyu.shi@unibe.ch and axel.rominger@insel.ch before April. 30st, 2026.