

NMR research engineer position in Tallinn, Estonia.

The NMR group in the National Institute of Chemical Physics and Biophysics (**KBFI**) in Tallinn, Estonia, has an opening for an NMR research engineer. Our NMR laboratory is part of the Estonian national analytical chemistry research infrastructure and houses a diverse set of solution and solids NMR instrumentation. We operate 6 magnets ranging from a 200 MHz wide bore solids instrument to an 800 MHz cryoprobe equipped spectrometer. Most instrumentation is Bruker, but we operate a 500 MHz Agilent DD2 liquids spectrometer.

Profile of the laboratory:

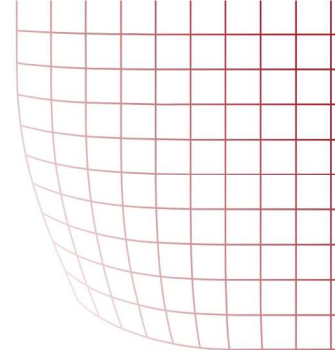
KBFI is a public non-teaching academic research institute that conducts fundamental and applied research in chemical physics, chemical biology, particle physics and toxicology. Our NMR laboratory does NMR methodology development, studies biological and metabolomics samples, supports in-house projects in materials science and physics, offers NMR analysis to other academic institutions in the region and provides NMR analysis services to industry customers (including structural elucidation). We maintain engineering capacity to modify and develop NMR hardware – we operate unique instruments for liquids hyperpolarization and for solid state studies of materials. We are the only facility in the Baltics with helium recovery and liquification facilities.

The position:

Foreseen tasks include, but are not limited to:

- Implementing and setting up experiments and methods.
- Routine maintenance, troubleshooting, coordinating repairs, overseeing scheduling of instruments, changing probes, etc.
- NMR analysis for external users (may include measurements, analysis, reporting).
- Training of new users, supporting existing users.
- Support students, postdocs and other researchers.
- Developing own research ideas is not a requirement but will be encouraged.
- Will be working closest to colleagues in metalloorganic chemistry, parahydrogen and photo-CIDNP hyperpolarization and metabolomics.

The successful candidate will be hired as a full-time employee, with a 4-month probationary period. The contract will include a monthly salary and 6 weeks of paid vacation annually.



The candidate:

A PhD degree in chemistry, NMR, materials/polymers science or related discipline is preferred, but not strictly necessary if compensated by adequate experience. Prior exposure to NMR and structural elucidation by NMR is desired. The position will require experience working with NMR spectrometers. Experience with service and maintenance of NMR instrumentation will be a plus. Prior experience in solution NMR will be prioritized over solid state, but the candidate will be exposed to both and can develop own skills in both.

The location:

KBFI is a non-teaching academic research institute situated about 7 km from city center of Tallinn, the capital of Estonia, and 10 km from the airport. It can be easily reached by public transportation. There are usually plenty of short stay or rental housing available within walking distances in the surrounding Mustamäe district.

To apply:

Interested candidates should submit a CV, a motivation letter and a copy of their relevant academic degree certificate by email to Dr Indrek Reile (indrek.reile@kbfi.ee). Informal enquires can be directed to the same address. The starting date will be in August 2025 but will be negotiable.