

Analytics by neutron beams at the Budapest Neutron Centre for Science and Industry

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The Budapest Neutron Centre (BNC) is one of the largest research infrastructures in Central Europe. The neutrons are provided by the Budapest Research Reactor (BRR) operated by the Institute for Atomic Energy of the Centre for Energy Research, Hungarian Academy of Sciences. The beams of neutrons from the reactor offer a unique possibility to investigate different important problems in several R&D fields.

With the facilities of the BRR, a great variety of research can be performed on various systems and materials. Fifteen experimental stations are available for the BNC's user access systems to solve questions covering different topics from the forefront of physics, chemistry, material and earth sciences, engineering, biology and archaeology. Hungary became the part of the CERIC-ERIC providing a part of its research infrastructure for users applying for CERIC's open user access. Beside this opportunity, other EU funded access programs are also operated in specific scientific fields.

In the talk, main features of the infrastructure, the ways of access and some industrial applications will be presented.