



## 15<sup>th</sup> Central European Training School on Neutron Techniques

**Dear Colleagues, dear Students,**

[Budapest Neutron Centre](#) announces the 15th Central European Training School on Neutron Techniques to be held between 23rd and 28th April in Budapest, Hungary. The annual Central European Training Schools are aimed at master and PhD students, post-docs as well as early career researchers who have little or no experience in neutron techniques but are interested in using them in their research projects. Following the introductory lectures on the theory and on the different neutron techniques by local experts (in two and a half days), participants may choose five of the BNC instruments (listed below) to perform three hour hands-on practices each under the tuition of the instrument scientists.

### **Registration deadline: 19 March, 2023**

Due to space limitations at the experimental stations, CETS 2023 can only accept 25 students. May you, your colleague or your student be interested, please be encouraged to register and apply for participation at <http://www.bnc.hu/cets>. Participants will have the chance to display a poster and to give a (5 min., max. 5 slides) flash presentation to highlight their research project described in the poster. The preliminary program is available at: <http://www.bnc.hu/cets>.

Participants will be charged a **registration fee of 100 EUR** for the meals and the printed [course material of the practices](#). A few grants will be available for students.

### **Hands-on practices will be performed on the following BNC instruments:**

[SANS-YS](#) – Small Angle Neutron Scattering

[GINA](#) – Neutron reflectometry

[MTEST](#) / [PSD](#) – Neutron diffraction

[ATHOS](#) – Residual stress analysis

[PGAA](#) / [NIPS](#) / [NAA](#) – Elemental analysis

[RAD](#) / [NORMA](#) – Neutron imaging

A visit to [Mirrotron Ltd.](#), a sponsor of CETS, a spin-off company on the same campus, producing various kinds of neutron instrumentation (supermirrors, area detectors, choppers, velocity selectors, polarizers and the like) will complete the practical experience of the participants.





**CETS has become part of the higher education.** Two years ago the combined theory & hands-on training school of BNC has been accredited by the Doctorate School of Physics of the Eötvös Loránd University of Sciences Budapest, and that of the Budapest University of Technology and Economics. Earning credits is now a possibility not only for students of Hungarian universities, but, in principle – through the [ECTS](#) – for students of universities Europe-wide. Participants, who request university credits, the oral/poster presentation, completion of the on-line test and submission of an essay – on how their research could be made more effective using neutrons – will all be required.

Contact person: Dr. Indu Dhiman

email: [cets@bnc.hu](mailto:cets@bnc.hu)



Budapest Neutron Centre  
1121 Budapest, Konkoly-Thege Miklós út 29-33.