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**UNIVERSITÄT
BERN**

AEC
ALBERT EINSTEIN CENTER
FOR FUNDAMENTAL PHYSICS

LABORATORIUM FÜR HOCHENERGIEPHYSIK
LHEP
UNIVERSITÄT BERN

The *Albert Einstein Center for Fundamental Physics* (AEC) and the *Laboratory for High Energy Physics* (LHEP) at the University of Bern invite applications for a

PhD Student Position in Experimental Low Energy Particle Physics with Neutrons

The *Fundamental Neutron and Precision Physics Group* at the University of Bern is working in the field of experimental low energy particle physics. We develop novel methods and perform high-precision neutron physics experiments to search for physics beyond the Standard Model. The group is active in several exciting state-of-the-art projects (e.g. neutron EDM searches, neutron charge measurement, neutron interferometry, axion searches etc.). Currently, the primary activity of our group is a new high-precision experiment to search for a CP-symmetry violating neutron electric dipole moment (EDM). The goal of this research program is to initiate a novel measurement approach which employs a high-intensity pulsed beam of polarized neutrons (<https://arxiv.org/abs/1309.1959> and <https://arxiv.org/abs/1812.03987>). Ultimately, this experiment is intended for the upcoming European Spallation Source in Sweden.

We are looking for a highly skilled and enthusiastic students who enjoys working on quickly developing projects in low energy particle physics. You should hold a master's in physics and ideally have experience in experimental physics from internships and/or your master's project. You are a team-oriented and communicative person and act independently, show initiative and are practice-oriented. Good knowledge of English (written and oral) is mandatory; knowledge of German is a plus.

Candidates are requested to send a short letter of motivation, their CV, and possible names and contact information of references to the email address given below. The review of applications will start immediately and will continue until the position is filled.

For further information, please contact:

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https://www.lhep.unibe.ch/research/neutron_and_precision/index_eng.html