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UNIVERSITÄT  
BERN

AEC  
ALBERT EINSTEIN CENTER  
FOR FUNDAMENTAL PHYSICS

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

## **Postdoctoral Position in Particle Detectors and Medical Applications of Particle Physics**

The position will be at the interface between precision tracking detector developments and medical applications of particle physics. The LHEP/AEC group is actively pursuing developments of pixel detectors and their readout. Currently we focus on the optical readout for the ATLAS upgrades for the HL-LHC, and will expand towards detector studies for the FCCee. We operate a facility based on a medical cyclotron with a dedicated research beam-transport line, with which we perform accelerator, detector and radiation hardness studies. We are strongly involved in developing methodologies for the production of medical radioisotopes for theranostics using solid targets. We envisage using proton induced neutron beams for multi-disciplinary research purposes.

The successful candidate is expected to play a leading role in these activities and proactively develop future plans. The time is naturally shared between the research topics by the synergic nature of the involvement. Analysis work for collider- and/or medical-physics is also possible.

Applicants must have a PhD in experimental high-energy physics. Preference will be given to candidates with experience in particle physics detectors, ideally in tracking detector or medical applications. The initial duration of the contract is for two years, extendable. The position will be located in Bern.

Candidates are requested to send a short letter of application illustrating their research interests and motivation to join our group. Also required are CV, a list of publications, and the names and e-mail addresses of three references. We will ask the references to send letters only after an initial selection. The application package has to be sent by email to [marcella.esposito@lhep.unibe.ch](mailto:marcella.esposito@lhep.unibe.ch) with subject line "ATLAS+Medical PostDoc".

The review of applications will start October 1<sup>st</sup> and continue until the position is filled. The starting date for the position is negotiable, starting immediately.

For further information, contact:

Prof. Dr. Michele Weber, [weber@lhep.unibe.ch](mailto:weber@lhep.unibe.ch)

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