

Faculty/Departement Mathematics, Informatics and Natural Sciences / Physics
Seminar/Institute Institute for Experimental Physics

Universität Hamburg invites applications for a Research Associate on

5-dimensional reconstruction of hadronic showers -

in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) as part of the BMBF funded project: R&D für Scintillatorbasierte Detektoren (AHCAL). The position commences as soon as possible. It is remunerated at the salary level TV-L 13. The position is half-time and comprises 19,5 hours per week.

The contract duration is initially fixed to two years, but can be subject to extension if funds are available. The fixed-term nature of this contract is based upon Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG).

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

Responsibilities:

Duties include research within the CALICE AHCAL project. Research associates can pursue independent research and further academic qualifications as well as acquire teaching experience.

Specific Duties:

The position is dedicated to data analysis of the CALICE AHCAL imaging calorimeter. Highly granular data on hadronic shower development including spatial, energy and time information are available as result of a test beam characterization of the AHCAL prototype. The group will focus on calibration, data analysis and development of novel techniques for shower separation. Machine learning techniques will be tested on the new rich data set and on simulation data.

Requirements:

Applicants are required to have an excellent research record as well as excellent communication skills. A doctoral degree in physics is an advantage. At least two of the following requirements should be fulfilled: proven experience in detector data analysis (preference for calorimetry), profound competence in system simulation studies, experience in machine learning techniques.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information, please contact Prof. Erika Garutti (erika.garutti@uni-hamburg.de).

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is 18. July 2018. Later applications are accepted until the position is filled. Please send applications to: Ms Gundula Serbser, gundula.serbser@desy.de