



Faculty/Department: Mathematics, Informatics, Natural Sciences / Physics
Seminar/Institute: Institute for Experimental Physics

Pending approval of external funding Universität Hamburg invites applications for several PhD positions for research in

“Experimental High Energy Physics (CMS experiment)”

in accordance with Section 28 subsection 3 of the Hamburg Higher Education Act (Hamburgisches Hochschulgesetz, HmbHG). The positions commence as soon as possible. They are remunerated at the salary level TV-L 13 and call for 50% of the standard working time per week*.

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 Equality Act (Hamburgisches Gleichstellungsgesetz, HmbGleIG).

Responsibilities:

Duties include academic services related to the CMS experiment. Research associates can also pursue independent research and further academic qualifications.

Specific Duties:

Our group consists of more than 60 members and is deeply involved in detector R&D as well as calibration and data analysis of the CMS experiment. Candidates are expected to engage in one of the following research fields:

- Development of new silicon pixel detectors
- Top precision measurements
- Rare Higgs Phenomena
- Searches for physics beyond the Standard Model such as supersymmetry, boosted topologies, or long lived particles
- Machine learning, especially deep learning

Contributions to the running and calibration of the detector or computing are expected as well. Interested candidates will be offered the opportunity for own research, advanced training and development of teaching skills in a stimulating scientific environment.

Funding is available through the University and through third party grants of the federal initiative FSP-104 “Physics with the CMS Experiment“ by the German Ministry for Education and Research (BMBF) as well as the German Science Foundation (DFG) via project 392528336. A close collaboration exists with other research groups in experimental and theoretical physics of the University and of DESY located on the same campus, in particular through the research cluster SFB-676 “Particles, Strings and the early Universe“ by the DFG.

* Full-time positions currently comprise 39 hours per week.



Universität Hamburg

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Requirements:

A university degree in a relevant field and excellent communication skills are required.

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

For further information, contact Jun.-Prof. G. Kasieczka (gregor.kasieczka@uni-hamburg.de) or Prof. E. Garutti, Prof. J. Haller, or Prof. P. Schleper and consult our website at

<http://www.iexp.uni-hamburg.de/groups/pd>.

Applications should include a cover letter, a curriculum vitae, at least two names of referees and copies of school and university certificate(s). The application deadline is 28 February, 2018.

Later applications are considered until the positions are filled. Please send applications to: magdalene.hack@desy.de.