



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

Universität Hamburg invites applications for a Research Associate in accordance with Section 28 subsection 1 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG). The position commences as soon as possible.

It is remunerated at the salary level TV-L 13 and calls for 50% of standard work hours per week.\* The fixed-term nature of this contract is based upon Section 2 of the academic fixed-term labor contract act (Gesetz über befristete Arbeitsverträge in der Wissenschaft, WissZeitVG). The initial fixed term is three years.

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:**

Associates will be expected primarily to teach and conduct research. The associate will also have the opportunity to pursue further academic qualifications, in particular a doctoral dissertation.

**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. Teaching includes supervision of students in laboratory or exercise classes at the level of 2 hours per week.

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) and through the SFB-676 "Particles, Strings and the early Universe" by the German Science Foundation (DFG). A close collaboration exists with the research groups in experimental and theoretical physics of DESY located on the same campus.

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



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

**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](mailto: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](mailto:magdalene.hack@desy.de).