



Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Faculty of Mathematics, Informatics and Natural Sciences, Department of Physics, Institute for Experimental Physics invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT “EXPERIMENTAL HIGH ENERGY PHYSICS (CMS EXPERIMENT)”

POSTDOC POSITION

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 1 February 2021.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed until 31 January 2022. The position calls for 39 hours per week. This position is also suitable for part time employment.

RESPONSIBILITIES:

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

SPECIFIC DUTIES:

Our group is deeply involved in the CMS experiment at CERN’s Large-Hadron-Collider.

Candidates are expected to engage in one of the following research fields:

- Development of experimental techniques for boosted heavy object identification including particle flow and jet reconstruction
- Search for phenomena beyond the Standard Model, in particular searches with boosted bosons
- Measurements of jet substructure
- Measurements of Vector-Boson-Scattering and Higgs-Boson-Pair production

Contributions to the running and calibration of the detector, reconstruction software 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. Additional scientific accomplishments are encouraged. This position is located in the Emmy-Noether research group "Precision searches for new physics with boosted bosons" (Dr. A. Hinzmann) funded by the German Research Foundation (DFG). The CMS group in Hamburg 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. 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 cluster of excellence "Quantum Universe" funded by the German Science Foundation (DFG).

REQUIREMENTS:

A university degree in a relevant subject plus doctorate. Excellent communication skills are required. Experience in the above mentioned research fields, LHC data analysis, advanced statistical methods, or detector reconstruction algorithm development is advantageous.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Dr. Andreas Hinzmann (andreas.hinzmann@uni-hamburg.de) or consult our website at <http://www.boostedbosons.uni-hamburg.de>.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 15 December 2020 to: andreas.hinzmann@uni-hamburg.de.

Please do not submit original documents as we are **not** able to return them. Any documents submitted will be destroyed after the application process has concluded.