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 of Experimental Physics invites applications for a

**RESEARCH ASSOCIATE**

**FOR EXPERIMENTAL PARTICLE PHYSICS**

- **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 April 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 for a period of 3 years. The position calls for 39 hours per week. This position is also suitable for part-time employment.

**RESPONSIBILITIES:**

Duties primarily include teaching and research. Research associates may also pursue independent research and further academic qualifications.

**SPECIFIC DUTIES:**

Our group is heavily involved in the construction and running of the CMS Experiment at the LHC and analysis of its data for top-quark physics, Higgs physics and searches for signatures related to dark matter. We are part of the Cluster of Excellence “Quantum Universe” at Hamburg University dedicated to the understanding of mass and gravity at the interface between quantum physics and cosmology. Our group also participates in the newly founded Hamburg Center for Data and Computation in the Natural Sciences CDCS.

In order to expand our current research on Higgs boson physics and deep learning technologies, we are looking for an outstanding scientist interested in experimental searches for rare Higgs processes such as Higgs decays into muons or di-Higgs production, and in the development of machine learning techniques for these and other research topics. We also expect contributions to the running of the CMS experiment.

Teaching is expected at the level of 4 hours per week.
Postdoctoral research associates will become members of the Quantum Universe research school (QURS) and through this receive offers for academic training, soft skills, and career planning. Postdoctoral research associates are expected to participate in the supervision of doctoral, master and bachelor students.

REQUIREMENTS:
A university degree in a relevant subject plus doctorate. We expect candidates to have a doctorate in the field of high-energy physics and excellent English communication skills. Candidates with experience in experiments at particle colliders are preferred. A thorough understanding of statistical methods used in data analysis is expected.

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 Prof. Peter Schleper (peter.schleper@uni-hamburg.de) or consult our website at https://www.qu.uni-hamburg.de/ and https://www.physik.uni-hamburg.de/iexp.html.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 10 January 2021 to: magdalene.hack@desy.de. Please cite at least three contact persons for reference (note that no letters of recommendation need to be sent at this stage of the application).

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.