

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 (PHD STUDENT) FOR THE PROJECT “CLUSTER OF EXCELLENCE QUANTUM UNIVERSE” HIGGS PHYSICS IN THE ATLAS EXPERIMENT - 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 2020 or later**.

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 26 hours per week.

RESPONSIBILITIES:

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

SPECIFIC DUTIES:

The Cluster of Excellence “Quantum Universe” performs research to understand mass and gravity at the interface between quantum physics and cosmology. The research team includes leading scientists from mathematics, particle physics, astrophysics, and cosmology at Universität Hamburg and DESY.

Candidates for this PhD student position are expected to contribute to the Higgs boson measurements using data from the ATLAS experiment, in particular using the framework of simplified template cross sections (STXS), and to the combination of the measurements from the ATLAS and CMS experiments. He/She will also work closely with theorists within the Cluster of Excellence to further develop the STXS framework.

Doctoral 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. In addition, they will receive individual budgets, meant to enable them to attend summer schools, conferences or other educational and supporting measures. Additional travel money for project-specific duties will be made available via the hosting research groups. Doctoral research associates may actively participate in the organization of the Cluster via an early career council.

REQUIREMENTS:

A university degree in a relevant field. Experience in LHC data analysis is advantageous.

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

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

For further information, please contact Prof. Dr. Kerstin Tackmann (kerstin.tackmann@desy.de) or consult our website at www.qu.uni-hamburg.de.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by **20 November 2019** to: Prof. Dr. Kerstin Tackmann (kerstin.tackmann@desy.de) and office@qu.uni-hamburg.de. Applicants should also arrange for two letters of recommendation to be sent to the same addresses by the same deadline. Later applications will be considered until the position is filled.

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