



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 an

## STAFF POSITION IN THE AREA

### ‘DATA SCIENCE IN EXPERIMENTAL PARTICLE PHYSICS’

- EGR. 13 TV-L -

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The position commences as soon as possible and is permanent. This position is also suitable for part time employment.

At the Department of Physics at Universität Hamburg (UHH), the scientific foundations of modern physics are researched in a strongly international environment. At the Institute for Experimental Physics, research groups work on large international projects in particle physics, such as the CMS experiment at the Large-Hadron-Collider at CERN in Geneva.

Become part of our team in the Cluster of Excellence “Quantum Universe”. The cluster 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 UHH and DESY. Currently, the “Platform for Challenges in Data Science” is being set up to network the various research fields in the area of data analysis.

#### RESPONSIBILITIES:

- statistical analysis of data from particle physics experiments (CMS experiment)
- implementation and application of methods of artificial intelligence and ‘big data’
- integration of the algorithms in modern software structures
- coordination and organization of the “Platform for Challenges in Data Science”
- knowledge transfer and advanced training in the above areas for technicians, scientists and students

#### REQUIREMENTS:

You have successfully completed a university degree (master/magister, diploma) in the fields of informatics, mathematics or physics or at least equivalent proven qualifications.

## REQUIRED SKILLS AND PERSONAL QUALITIES:

- knowledge of techniques of statistical data analysis and algorithms of artificial intelligence
- experience in using these techniques in a scientific environment
- knowledge of programming languages and modern software design
- experience in the coordination of international groups is welcome
- good written and verbal English skills
- quick to grasp new concepts
- commitment
- structured and independent way of working
- excellent ability to work in a team
- communication and presentations skills

## WE OFFER:

- a highly attractive workplace at the interface of algorithms of artificial intelligence and basic research (experimental particle physics)
- work on large international projects in basic research
- work in national and international networks of universities and research institutions, especially DESY and CERN
- work in a very dynamically developing environment with great opportunities for personal development

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented at this salary level 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.

We explicitly encourage persons with an immigrant background to apply.

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

For further information, please contact, please contact Prof. Dr. Johannes Haller (+49 40 8998-4710 or [johannes.haller@physik.uni-hamburg.de](mailto:johannes.haller@physik.uni-hamburg.de)).

Please send your complete application including the reference number by **February 20, 2020** to:

**Universität Hamburg**  
**Stellenausschreibungen**  
**Kennziffer: 606/4**  
**Mittelweg 177**  
**20148 Hamburg**  
or via E-Mail: [bewerbungen@verw.uni-hamburg.de](mailto:bewerbungen@verw.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.