

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

RESEARCH ASSOCIATE FOR THE PROJECT
“CLUSTER OF EXCELLENCE QUANTUM UNIVERSE”
PLATFORM FOR INNOVATION IN DETECTOR SCIENCE
- 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 July 2019**.

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.

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.

The position is imbedded in the newly established Platform for Innovation in Detector Science and aims to improve the infrastructure of the Cluster and extend fundamental detector knowledge in the field of novel silicon-based detectors. The project includes the development of a new timing layer for the DESY test beam instrumentation. The layer, equipped with LGAD sensors, will be integrated in the data acquisition of the EUDET-style telescopes already in use. Links to the further research topics are possible: design of silicon sensors for fast timing measurements, fast timing microelectronics, and investigation of radiation damage in LGADs.

Postdoctoral research associates will become members of the Quantum Universe research school (QRS) 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 conferences or other educational and supporting measures. Additional travel money for project-duties will be made available via the hosting research groups. Postdoctoral research associates may participate in the supervision of doctoral students, teaching at the University, and in the organization of the Cluster via an early career council.

REQUIREMENTS:

A university degree in a relevant field plus doctorate. At least two of the following requirements should be fulfilled: experience of test beam instrumentation development, proven experience with LGAD or fast timing detectors, profound competence in silicon detector characterization and operation.

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).

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

For further information, please contact Prof. Dr. Erika Garutti (erika.garutti@physik.uni-hamburg.de) or Prof. Dr. Ingrid-Maria Gregor (ingrid.gregor@desy.de), or consult our website at www.qu.uni-hamburg.de.

Applications should include a cover letter, a tabular curriculum vitae, copies of degree certificate(s), and three letters of recommendation. Please send applications by **1 April 2019** to: gundula.serbser@uni-hamburg.de and office@qu.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.