



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 (POSTDOC) PROJECT COORDINATION “CRYOGENIC TEST MASSES FOR THE DETECTION OF GRAVITATIONAL WAVES”

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 2 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on **1 January 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 initial fixed term is three years. The contract provides for a maximum extension of up to three years depending on the associate's achievements during the first stage. Providing that a position is available and that requirements have been fulfilled, the associate may apply for temporary civil servant status in accordance with Section 28 subsection 2 HmbHG. The position is full-time and comprises 39 hours per week (40 for civil servants).

RESPONSIBILITIES:

Duties include teaching and research in the respective department or institute. Research associates may also pursue independent research and further academic qualifications as well as acquire teaching experience. These duties are intended to promote academic achievement. Therefore, at least one-third of set working hours will be made available for the associate's own academic work.

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 involves

- Responsible coordination of research in the field of cryogenic test masses for gravitational wave detection.
- Development of new physical concepts for the extraction of heat energy from suspended cryogenic mirrors.
- Development, assembly and characterization independent of laser interferometric assemblies at less than 5 K and less than 50 mK.
- Guidance and co-supervision of master students and doctoral students in low-temperature experiments and independent publication of research results.
- Independent acquisition of third-party funds and participation in larger research projects. (LIGO Scientific Collaboration, DFG Collaborative Research Center in planning and other projects)

Teaching is expected at the level of 4 hours per week. Postdoctoral research associates will become member 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-specific 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. They will also become member of the LIGO Scientific Collaboration.

REQUIREMENTS:

A university degree in a relevant subject plus doctorate. The following requirements should be fulfilled: Competence in the operation and maintenance of a closed-cycle ^3He -dilution refrigerator; profound experience in experiments at temperatures below 1 Kelvin; experience in the operation of measurement sensors at temperatures below 100 Kelvin and below 1 Kelvin; very good German or English language skills.

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. Roman Schnabel (+49 40 8998-5102 or roman.schnabel@physnet.uni-hamburg.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), and three letters of recommendation. Please send applications by **1 November 2019** to: roman.schnabel@physnet.uni-hamburg.de and office@qu.uni-hamburg.de. 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 submitted will be destroyed after the application process has concluded.