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” SQUEEZED-LIGHT ENHANCED LASER INTERFEROMETER FOR SEARCHES OF DARK MATTER

- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences as soon as possible.

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.

The candidate for this PhD student position will be part of a dedicated team that realizes a squeezed-light-enhanced laser interferometer for the detection of axion-like particles. The duties of the candidate are the optimization and integration of the fiber-based interferometer in the warm bore of a super-conducting magnet.

* Full-time positions currently comprise 39 hours per week.
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 the operation of fiber-based optical setups, preferentially with hollow-core photonic crystal fibers. Very good German or English language skills.

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. Dr. Dieter Horns (+49 40 8998-2202 or dieter.horns@physik.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). Please send applications by 20.09.2020 to: dieter.horns@physik.uni-hamburg.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 submitted will be destroyed after the application process has concluded.