



Faculty/Departement Mathematics, Informatics, Natural Sciences/Physics
Seminar/Institute Institute for Laser Physics

Universität Hamburg invites applications for a Research Associate for the project **“Squeezed Light at 2.1 μ m for Gravitational Wave Detectors / Gequetschtes Licht bei 2,1 μ m für Gravitationswellendetektoren”** in accordance with Section 28 subsection 3 of the Hamburg Higher Education Act (Hamburgisches Hochschulgesetz, HmbHG). The position commences on January 1st, 2018, or thereafter.

It is remunerated at the salary level TV-L 13 and calls for 75 % of standard work hours per week*.

The fixed-term nature of this contract is based upon Section 2 of the Academic Fixed-Term Labor Contract Act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 36 months.

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 Equality Act (Hamburgisches Gleichstellungsgesetz, HmbGleiG).

Responsibilities:

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

Specific Duties:

Within the project named above, the applicant will set up a quantum-optical experiment at the forefront of squeezed light technology. Your task will be to design and build a squeezed light source at a wavelength of 2.1 μ m, based on and expanding from the world-leading technology available in our research group. You will help with and acquire experience with the mechanical and optical design of optical parametric amplifiers, as well as the electronic design and building of high-quality photo detectors and control loops. The applicant will present the project results in peer-reviewed journals and international conferences. You will be expected to help with the general teaching duties of the research group.

Requirements:

A university degree in a relevant field. Fluency in the English and/or German language is required. Experience in working with optical experiments, laser systems and high-quality optics is an advantage. The experimental work will be carried out in semi-cleanroom conditions, therefore the willingness and physical ability to work in this environment is a requirement. The

* Full-time positions currently comprise 39 hours per week.



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applicant should feel comfortable and motivated in designing and setting up a complex experiment, and enjoy working as part of internationally leading research team.

Severely disabled applicants will receive preference over equally qualified non-disabled applicants.

For further information, please contact Dr. Sebastian Steinlechner (sebastian.steinlechner@physnet.uni-hamburg.de) or consult our website at <http://photon.physnet.uni-hamburg.de/en/ilp/schnabel/>.

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is December 31st, 2017. Please send applications to: Dr. Sebastian Steinlechner (sebastian.steinlechner@physnet.uni-hamburg.de).