Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

RESEARCH ASSOCIATE FOR THE PROJECT “IONLINQ” – MICROPHOTONIC INTERFACES FOR TRAPPED IONS § 28 SUBSECTION 3 HMBHG

Institution: Faculty of Mathematics, Informatics and Natural Sciences, Department of Physics, Centre for Optical Quantum Technologies
Salary level: EGR. 13 TV-L
Start date: as soon as possible, fixed for a period of three years (This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG]).
Application deadline: 2025-04-04
Scope of work: part-time
Weekly hours: 75 % of standard work hours per week

Your responsibilities

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

The research associate will contribute to building a state-of-the-art trapped ion system with barium ions for quantum information processing, and interface trapped, cooled ions with a microcavity. The research associate will be responsible for setting up a Paul trap, trap and cool ions and implement quantum gates using their ground state spins.

Your profile

A university degree in a relevant field.

We are looking for a motivated student with relevant knowledge and ideally experimental experience in the field of atomic physics, and quantum optics, preferably on a trapped ion setup. Relevant skills include building and operating experimental setups which perform laser cooling, Raman transition, laser stabilization, addressing of quadrupole transitions, ultra-high vacuum systems, cryogenic systems, fiber Fabry Perot cavities, or Paul Traps.

We offer


Reliable remuneration based on wage agreements


Continuing education opportunities


University pensions


Attractive location


Flexible working hours


Work-life balance opportunities


Health management, EGYM Wellpass


Educational leave


30 days of vacation per annum

Universität Hamburg—University of Excellence is one of the strongest research educational institutions in Germany. Our work in research, teaching, educational and knowledge exchange activities is fostering the next generation of responsible global citizens ready to tackle the global challenges facing us. Our guiding principle “Innovating and Cooperating for a Sustainable Future in a digital age” drives collaboration with academic and nonacademic partner institutions in the Hamburg Metropolitan Region and around the world. We would like to invite you to be part of our community to work with us in creating sustainable and digital change for a dynamic and pluralist society.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at the University of 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.

Severely disabled and disabled applicants with the same status will receive preference over equally qualified non-disabled applicants.

Instructions for applying

Contact

Prof. Dr. Ralf Riedinger
ralf.riedinger@uni-hamburg.de
+49 40 42838-5695

Kirstin Behnke
kirstin.behnke@uni-hamburg.de
+49 40 42838-5526

Location

Luruper Chaussee 149
22761 Hamburg
Zu Google Maps

Reference number

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Application deadline

2025-04-04

Use only the online application form to submit your application with the following documents:

- cover letter
- CV
- copies of degree certificate(s)

If you experience technical problems, send an email to bewerbungen@uni-hamburg.de.
More information on data protection in selection procedures.