RESEARCH ASSOCIATE FOR THE PROJECT “CLUSTER OF EXCELLENCE ‘CUI: ADVANCED IMAGING OF MATTER’-ENVIRONMENT INDUCED NON-STATIONARITY AND PT SYMMETRIES” § 28 SUBSECTION 1 HMBHG

Institution: Cluster of Excellence „Advanced Imaging of Matter“ (photon and nanosciences)
Salary level: EGR. 13 TV-L
Start date: 01.09.2022, The initial fixed term is 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: 2022-08-26
Scope of work: part-time
Weekly hours: 75 % of standard work hours per week

Responsibilities
Research associates will be expected primarily to teach and conduct research. The research associate will also have the opportunity to pursue further academic qualifications, in particular a doctoral dissertation. At least one-third of set working hours will be made available for the research associate’s own academic work.

Specific Duties
- Conduct original theoretical physics research into perpetually non-stationary non-unitary dynamics induced by an environment and its connections to PT symmetric quantum theory
- Manage the research project on a day-to-day basis and regularly report progress to D. Jaksch
- Writing of research papers for internationally refereed journals and presenting results at national and international conferences
- Engage with theory and experimental colleagues with the aim to establish scientific collaborations
- Contribute to the positive atmosphere, maintenance and smooth running of the group, as required
- Contribute to the intellectual life of the research group and the collaboration, including participating in video and teleconference meetings as required, and travelling for national and international workshops and meetings
- Contribute to the writing of project reports required and assisting with other reasonable practical and administrative duties as required
- Teaching of three teaching hours per week
Requirements

A university degree in a relevant field. Excellent knowledge of quantum mechanics and familiarity with quantum optics and/or the physics of ultracold atoms. Expertise in numerical methods for many-body quantum systems is desired.

We offer

- Reliable remuneration based on wage agreements
- Continuing education opportunities
- University pensions
- Attractive location
- Flexible working hours
- Work-life balance opportunities
- Reduced rates available for a HVV-ProfiCard (transit pass) and much more
- Health management
- Educational leave
- 30 days of vacation per annum

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 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.

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

Tips on applying

Contact

Prof. Dr. Dieter Jaksch
dieter.jaksch@uni-hamburg.de
+49 40 151 2635774

Location

Luruper Chaussee 149
22761 Hamburg
Zu Google Maps

Reference number

251

Application deadline

2022-08-26
Send us your complete application documents (cover letter, curriculum vitae, copies of degree certificate(s) and if necessary ID attesting to your disability or proof of equivalent status) via the online application form only. If you experience technical problems, send an email to bewerbungen@uni-hamburg.de.
More information on data protection in selection procedures.