RESEARCH ASSOCIATE FOR THE PROJECT “CLUSTER OF EXCELLENCE ’CUI: ADVANCED IMAGING OF MATTER’ - CORRELATED MATERIALS IN DRIVEN CAVITIES” § 28 SUBSECTION 3 HMBHG

Institution: Cluster of Excellence „Advanced Imaging of Matter“ (photon and nanosciences)
Salary level: EGR. 13 TV-L
Start date: 01.01.2024, fixed until 31.12.2025 (This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG]).
Application deadline: 2023-09-25
Scope of work: full-time position suitable for part-time

Responsibilities
Duties primarily include teaching and research. Research associates may also pursue independent research and further academic qualifications.

Specific Duties
The successful applicant is expected
- to conduct independent research in the theory of light-matter interactions with a particular focus on the control of man-body systems by the strong coupling to cavities
- to write scientific papers and present their results at international conferences
- to engage with theory and experimental colleagues with the aim to establish scientific collaborations
- to contribute to the intellectual life, a positive atmosphere and the smooth running of the research group
- to teach four teaching hours per week

Requirements
A university degree in a relevant field.
And a proven scientific record equivalent to a PhD degree.
Strong analytical and communication skills are essential for the role. This position requires a solid background in the many-body theory of quantum systems. In addition, experience in equilibrium and nonequilibrium simulations based on tensor network methods, as well as in the use of established software packages such as TNT, TenPy or iTensor would be highly desirable. Research experience in the theory of light-matter interactions and quantum optics would be advantageous as well.

**We offer**

![Euro icon] Reliable remuneration based on wage agreements
![Graduation cap icon] Continuing education opportunities
![Piggy bank icon] University pensions

![Location icon] Attractive location
![Clock icon] Flexible working hours
![Pension icon] Work-life balance opportunities

![Health management icon] Health management
![Helmet icon] Educational leave

![Sun and flip flops icon] 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.

### Instructions for applying

**Contact**

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**Location**

Luruper Chaussee 149  
22761 Hamburg  
[Zu Google Maps](#)

**Reference number**

351

**Application deadline**

2023-09-25

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.