

Faculty/Department: Mathematics, Informatics, Natural Sciences/Physics
Seminar/Institute: CUI: Advanced Imaging of Matter

Universität Hamburg invites applications for a Research Associate for the project “**Cluster of Excellence 'Advanced Imaging of Matter' - Resolving electronic state changes using Incoherent Diffractive Imaging**” in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG). The position commences on 16 April 2019.

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 to 15 April 2022.

The University aims to increase the number of women in research and teaching and explicitly encourages women to apply. Equally qualified female applicants will receive preference in accordance with the Hamburg act on gender equality (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:

Two-photon correlations of spontaneously emitted photons in the far-field can be used to image the spatial distribution of the emitting sources. In addition, this method is highly sensitive to small emission energy differences, making it potentially a unique spatially resolving probe of electronic states. You will be developing this imaging method by helping design the proof-of-principle experiments and implementing algorithms to analyze the large amounts experimental data collected.

Requirements:

A university degree in a relevant field. Prior programming experience in C/C++ and python will be useful. English fluency is necessary to work in the international environment here.

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

For further information, please contact Kartik Ayyer (kartik.ayyer@mpsd.mpg.de, + 49 40 8998 88150) or consult our website at <https://kartikayyer.com>.

Applications should include a cover letter, curriculum vitae, and copies of degree certificate(s). The application deadline is 1 March 2019. Please send applications to: kartik.ayyer@mpsd.mpg.de.

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