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 Faculty of Mathematics, Informatics and Natural Sciences, CUI: Advanced Imaging of Matter invites applications for a

RESEARCH ASSOCIATE FOR THE PROJECT
“CLUSTER OF EXCELLENCE 'CUI: ADVANCED IMAGING OF MATTER' - X-RAY HOLOGRAPHIC MICROSCOPY AND IMAGING IN EXTREMES”
- SALARY LEVEL 13 TV-L -

The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on as soon as possible.

This is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act (Wissenschaftszeitvertragsgesetz, WissZeitVG). The term is fixed for a period of 3 years. The position calls for 75% of standard work hours per week**.

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

SPECIFIC DUTIES:
We are developing X-ray holographic microscopy for the imaging of systems as diverse as biological cells and nanoparticles involved in catalysis processes at resolutions approaching 1 nm. We have many challenges to overcome to reach this ambitious goal.

Your specific duties will be:
Develop novel wavefront measurement method based on ptychography, phase retrieval and projection holography using both coherent and incoherent x-ray sources
Develop novel x-ray optics for focusing and shaping x-rays
Apply x-ray optics for time-resolved microscopy
Participate in experiments at synchrotrons and XFEL facilities

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

A university degree in a relevant field. A Masters degree in Physics or similar is preferable. The candidate should have a strong background in optics, imaging, x-ray physics and interferometric methods. Expertise in analytical, quantitative, instrumentation or computational methods is expected. The candidate should enjoy working in an interdisciplinary team environment, and must have excellent communication skills.

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.

Qualified disabled candidates or applicants with equivalent status receive preference in the application process.

For further information, please contact Dr. Saša Bajt (sasa.bajt@desy.de) or consult our website at https://cid.cfel.de/team/multilayer_x_ray_optics/.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 15 March 2020 to: Dr. Saša Bajt (sasa.bajt@desy.de).

Please do not submit original documents as we are not able to return them. Any documents submitted will be destroyed after the application process has concluded.