



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 'ADVANCED IMAGING OF MATTER' - ADVANCED X-RAY IMAGING AND INTERFEROMETRY”

- SALARY LEVEL 13 TV-L -

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The position in accordance with Section 28 subsection 3 of the Hamburg higher education act (Hamburgisches Hochschulgesetz, HmbHG) commences on 16 September 2019.

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 2 years. The position calls for 39 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:

Within a collaborative setting, the candidate will develop novel methods to image particles and biological objects using X-ray free-electron laser pulses, including using coherent scattering and X-ray fluorescence. They will contribute to the design, execution, and analysis of experiments to explore the limits of structure determination. As needed, they may design and test methods to invert low-signal diffraction and interference patterns obtained from time-varying objects or solutions of identical particles and/or develop new instrumentation and methods to acquire such signals.

### REQUIREMENTS:

A university degree in a relevant subject plus doctorate. A suitable background in imaging science or physics is required. Experience with experiments at X-ray free-electron lasers or synchrotron radiation facilities is preferred, ideally in the field of coherent diffractive imaging or microscopy. The candidate must enjoy working in an interdisciplinary team environment, and must have excellent communication skills.

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).

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

For further information, please contact Prof. Dr. Henry Chapman or consult our website at <https://cid.cfel.de>.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by 1 July 2019 to: [Henry.Chapman@cfel.de](mailto:Henry.Chapman@cfel.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.