



Universität Hamburg  
DER FORSCHUNG | DER LEHRE | DER BILDUNG

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 Hamburg Centre of Ultrafast Imaging invites applications for a

## RESEARCH ASSOCIATE FOR THE PROJECT “TIME-RESOLVED STRUCTURAL DYNAMICS OF FUNCTIONAL MATERIALS”

- 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 November 1, 2020.

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 study novel functional transition metal compounds capable to generate electricity or to activate catalytic processes. Understanding these processes requires probes that monitor chemical dynamics on ultrafast timescales to understand bond-breaking and formation. For this purpose we use femtosecond laser systems and ultrafast x-ray sources at large-scale facilities. These compounds will be synthesized and characterized with ultrafast laser spectroscopies. Key reaction steps will be investigated with spin- and structure-sensitive x-ray tools from synchrotrons and free electron laser sources.

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

## REQUIREMENTS:

A university degree in a relevant field. Relevant fields include M.Sc. in physical, chemical or related sciences, intention to pursue a PhD thesis, experience in one of the following areas (two or more would be beneficial):

- experience performing and analyzing spectroscopic measurements on molecular systems,
- experience involving ultrafast lasers or synchrotron/FEL radiation is an asset
- Experience with a programming language (python and/or MATLAB) and/or computational chemistry software (Gaussian, Orca, etc.) is an asset
- Good communication skills and ability to work in an international and multi-disciplinary team with English as the working language.

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 Prof. Christian Bressler or consult our website at <https://www.mpsd.mpg.de/imprs-ufast/people/faculty>.

The position is embedded in project A4 of the collaborative research center SFB 925 (Lightinduced dynamics and control of correlated quantum systems). We study ultrafast electronic correlation in molecular spin transition systems using state-of-the-art x-ray techniques with some emphasis on polynuclear transition-metal complexes.

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by November 15, 2020 to: [christian.bressler@xfel.eu](mailto:christian.bressler@xfel.eu).

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.