



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

School: MIN faculty

Department: Physics

Seminar/Institute: Institut für Experimentalphysik

Universität Hamburg invites applications for a

**Postdoctoral Scientist (f/m) for X-ray diffraction and imaging
commencing on the next possible date.**

The position is full-time and is remunerated at the 13 TV-L salary level.

This contract is originally intended for two years and can be extended. The short-term nature of this contract is based upon § 2 of the Academic Short-term Contract Act (WissZeitVG).

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 Hamburg's Higher Education Act (HmbHG).

Tasks:

Duties include research in the EU synergy grant project:

AXSIS - "Frontiers in Attosecond X-ray Science: Imaging and Spectroscopy"

Area(s) of responsibility:

- Develop novel instrumentation for serial crystallography and scattering experiments
- Design and develop an X-ray beamline, optical system, and beamline diagnostics for a compact attosecond X-ray source
- Help integrate high frame-rate detector, spectrometer, pump laser optics, and sample delivery in an experimental endstation
- Characterise X-ray optical performance and diffraction performance of the experimental system
- Help implement experiment controls for the beamline and endstation
- Design and conduct serial crystallography and scattering experiments on protein crystals and other systems
- Work with the AXSIS team on time-resolved studies that combine X-ray diffraction and spectroscopy measurements

Requirements:

- A doctoral degree in Physics, Chemistry, Engineering, or related field

- Experience in the field of X-ray optics, crystallography, or coherent imaging
- Experience with beamline design and operation desired
- Must be eager to work in an interdisciplinary team that spans physics and chemistry with biology

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

Applications should include a letter of application, curriculum vitae, and copies of degree certificate(s). The deadline for applications is until the position is filled. Please send applications to: henry.chapman@cfel.de

For further information, please contact professor Henry Chapman on 040-8998-4155 or henry.chapman@cfel.de.



Universität Hamburg is certified by the family-friendly higher education audit