

The Max-Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI), Berlin, Germany, a non-university research institution and member of the Leibniz Association, pursues basic and applied research in ultrafast science, applying a large variety of short pulse laser and x-ray sources for time-resolved spectroscopy, diffraction and imaging.

For research on optical manipulation of nanometer-scale magnetic and electronic order and transient phases in solids, MBI invites applications for a position of a

Postdoctoral Research Associate (m/f/d)

to work on time-resolved resonant diffraction and imaging experiments.

Job profile:

The research aims at the observation of the nanometer-scale aspects in ultrafast processes in ordered materials such as domain nucleation and growth as well as optically induced phase transitions. Experiments are based on both in-house high harmonic generation sources as well as use of free-electron x-ray lasers, focusing on the soft x-ray spectral range in order to provide specific contrast in resonance with core level transitions. While an infrastructure of high harmonic sources and endstations for imaging and scattering is available, new methods will be explored and implemented. The work will be performed in a team of senior researchers, postdocs, and PhD students, and in close collaboration with theory.

Requirements:

PhD in physics, experience in resonant scattering or imaging with soft x-rays and a strong background in at least two of the following areas: magnetism, correlated materials, x-ray spectroscopy, pump-probe experiments with lab sources or at large scale x-ray facilities.

Offer:

MBI offers a 2-year appointment with a salary according to the German salary scheme for the public sector (TVöD Bund).

MBI is an equal opportunity employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply. If equally qualified, severely handicapped persons are given preference.

MBI supports the reconcilability of family and working life and is certified as family-friendly by the "family audit".

Please use the button "Apply online" and upload your application with a CV, a description of the research experience, publication list, references, and/or recommendation letters electronically via the MBI online recruiting platform at <https://mbi-berlin.de/career>. The deadline for applications is **January 5, 2020**.