

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 ultrafast magnetization and electronic dynamics in solids, MBI invites applications for a position of a

Postdoctoral Research Associate (m/f/d)

to work on time-resolved spectroscopy with soft x-rays.

Job profile:

The research aims at a fundamental understanding of light-induced magnetization phenomena in particular in multi-element solid systems, where elemental, chemical or nm-scale heterogeneity leads to novel transient behavior and functionality. Experiments are based on femtosecond lasers and high harmonic generation, focusing on the soft x-ray spectral range in order to provide elemental and chemical sensitivity. While an infrastructure of high harmonic sources and associated IR and MIR pump pulses 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 femtosecond time resolved or soft x-ray spectroscopy and a strong background in at least two of the following areas: magnetic x-ray dichroism and magnetism, correlated materials, THz generation and spectroscopy, femtosecond pump-probe experiments.

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**.