

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 lasers and methods of time-resolved spectroscopy and structure research. For research within a project devoted to ultrafast structural dynamics, MBI invites applications for a position of a

## PhD student

to work on femtosecond x-ray diffraction of condensed matter.

### Job profile:

Such research aims at elucidating ultrafast charge dynamics in solids with particular emphasis on ferroelectrics and correlated materials. An infrastructure of femtosecond laser-driven hard x-ray sources is available for experiments and complemented by ultrafast spectroscopic methods such as nonlinear infrared and terahertz spectroscopy, including numerical codes and software for data analysis. The work will be performed in a team of senior researchers, postdocs, and PhD students and is embedded in international collaborations.

### Requirements:

Master or diploma degree in physics. Strong background in at least two of the following areas: molecular physics, physics of crystalline materials, x-ray physics and applications, ultrafast photochemistry, techniques of nonlinear time-resolved spectroscopy.

### Offer:

MBI offers a 3-year appointment with a salary according to the German salary scheme for the public sector (TVöD) (75%).

MBI is an equal opportunity employer, applications by female scientists are invited in particular. If equally qualified, severely handicapped persons are given preference. The successful candidate will have to enroll as a graduate student at Humboldt University Berlin.

Applications with a cv, a description of the research experience, and - if available - recommendation letters should be sent by mail or email to

Prof. Thomas Elsaesser, Max-Born-Institute, Max-Born-Str. 2 a, D-12489 Berlin, Germany, [elsasser@mbi-berlin.de](mailto:elsasser@mbi-berlin.de).