

The Max-Born Institute for Nonlinear Optics and Short Pulse Spectroscopy (MBI) conducts basic research in the field of nonlinear optics and ultrafast dynamics arising from the interaction of light with matter and pursues applications that emerge from this research. It develops and uses ultrafast and ultra-intense lasers and laser-riven short-pulse light sources in a broad spectral range in combination with methods of nonlinear spectroscopy.

With its research, MBI fulfils a national mission and is an integral part of the international scientific community.

The Max-Born-Institute invites applications for the position

## Postdoctoral Position (f/m) in Theoretical Non-Linear Spectroscopy

### Job profile:

The Emmy Noether junior research group at the Max Born Institute offers a Postdoctoral Position in the field of „Theory of Nonlinear Spectroscopy of Biomolecular Dynamics“ (group leader: Dr. B. Fingerhut). The project focus is development of numerical methods for the real-time description of open quantum systems and complementary microscopic approaches. Applications comprise vibrational dephasing dynamics in condensed phase and the non-adiabatic dynamics of biomolecular systems. The junior research group has a close collaboration with experimental groups of Division C („Nonlinear Processes in Condensed Matter“) and active participation of the candidate in interdisciplinary projects is expected.

### Requirements:

Required is a PhD in physics, theoretical chemistry, physical chemistry or in a related area. Profound knowledge of theoretical physics or theoretical chemistry is expected. Experience in (quantum) molecular dynamics will be counted as advantage. Programming skills including C, Matlab or python and good ability to communicate in German or English are required.

### Offer:

The position is initially for two years with the possibility of extension. The payment is according to the German TVöD salary scheme for scientists in public research institutions.

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

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

Please upload your application, including cover letter, curriculum vitae, two letters of reference, certificates, transcript of grades as well as a list of publications electronically via the MBI online recruiting platform at <http://www.mbi-berlin.de/de/jobs/index.html>. The deadline for applications is **13.08.2018**.

For further information and inquiries please contact:

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