The Max Planck Society is Germany’s premier research organization. The currently 86 Max Planck Institutes and facilities conduct basic research in the service of the general public in the natural sciences, life sciences, social sciences and the humanities.

The Max Planck Institute for the Structure and Dynamics of Matter (MPSD) is located at the Science Campus Hamburg-Bahrenfeld and investigates dynamical phenomena within matter down to the elementary timescales of atomic and electronic motions, the femtosecond or attosecond timescale. The focus is on the use of short wavelength ultrafast probes, such as X-rays or electron pulses, which are capable of measuring atomic and electronic structures in matter of all kinds.

The MPSD currently consists of three scientific departments focusing on solid state physics, physical chemistry and theoretical methods in these fields. The MPSD is a partner in the Center for Free-Electron Laser Science (CFEL), collaborating with the Deutsches Elektronen Synchrotron (DESY) and the University of Hamburg in the development of science based on the X-ray Free Electron Lasers.

We are seeking a

**Post-doctoral reseacher (m/f/d) in the field of structural dynamics and ultrafast electron diffraction in full time**

**Your position:**

The candidate will be involved in setting up a lab environment for ultrafast electron diffraction and later will investigate ultrafast photo-induced phase transitions as well as charge and energy transfer phenomena in functional organic molecular solids at cryogenic temperatures, among other experiments. We will develop and install a multi-purpose ultrafast electron diffraction apparatus for low temperature experiments and work on novel electron gun designs and detection concepts. The candidate is expected to support the establishment phase of the new laboratory, and drive the first experiments on ultrafast structural dynamics in organic materials.

**Your qualification:**

You must have a university degree in a relevant subject plus PhD in physics. You should have an excellent track record and excellent skills in spoken and written English. We are looking for highly motivated individuals with a background in ultrafast laser spectroscopy and electron diffraction. The work requires knowledge in vacuum technology and molecular physics. Experience in one or several of the following areas is highly desirable: solid state physics, x-ray or electron diffraction and instrument design. Profound expertise in MatLab, Python, LabView programming is highly desired.

**Our offer:**

We offer a position according to the German public pay scale (TVöD). The appointment is for 2 years. Starting date as soon as possible.

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.

Furthermore, the Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

**Your application:**

To apply, please complete the online application form and attach your English CV and motivation letter as well as a list of three possible contacts for reference letters latest 15.07.2020.
For further information, please contact Dr. Sascha Epp, telephone 040/8998-S198, email: sascha.epp@mpsd.mpg.de or Dr. Heinrich Schwoerer, telephone 040/8998-86097, email: heinrich.schwoerer@mpsd.mpg.de.

Please note: Applications for this job are only accepted via our online application portal. Detailed information about the Max Planck Institute for the Structure and Dynamics of Matter can be found at http://www.mpsd.mpg.de.

We look forward to your application.