



MAX-PLANCK-GESELLSCHAFT



The **International Max Planck Research School for Ultrafast Imaging and Structural Dynamics** in Hamburg, Germany, offers a structured Ph.D. programme in the physics and chemistry of ultrafast phenomena.

Interdisciplinary Ph.D. positions in Ultrafast Science – IMPRS-UFAST – Hamburg

Research

Exciting research of ultra-intense electron and x-ray sources for directly observing atomic motions during primary events, and ultrafast imaging over the relevant length and time scales to reach new levels of understanding of the interplay between structure and dynamics.

Specific areas include theoretical and experimental aspects of condensed matter and atomically resolved dynamics, fundamental light-matter interaction, accelerator-based light sources, coherent imaging, coherent controlled molecular and solid state dynamics, molecule imaging, extreme timescale spectroscopy, ultrafast optics and x-ray science, relevance and applications in chemistry, biology and medicine.

We offer

- various Ph.D. positions in these areas:

Project Description

- a 3-year structured Ph.D. programme
- cross-disciplinary thesis research in a vibrant, international scientific environment
- supervision and mentorship by a team of internationally renowned experts and additional support through an advisory panel
- state-of-the-art research facilities
- advanced training opportunities (scientific, skills, career) in English
- work contract based on the federal wage agreement

Requirements

We are looking for highly motivated applicants with an excellent academic background. Applicants will hold (or are about to complete) an MSc degree or an equivalent degree in physics, chemistry or related areas.

Apply

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.

Applications must be submitted via the online application portal: [Apply here](#)

The deadline is 2nd December 2019.

Ph.D. projects start in summer/autumn 2020.

The International Max Planck Research School for Ultrafast Imaging & Structural Dynamics (IMPRS-UFAST) is a joint venture of the Max Planck Institute for the Structure and Dynamics of Matter, Deutsches Elektronen-Synchrotron DESY, the University of Hamburg and the European XFEL GmbH.

