

International Max Planck Research School for Ultrafast Imaging & Structural Dynamics



The International Max Planck Research School for Ultrafast Imaging and Structural Dynamics (IMPRS-UFAST) is a joint enterprise of Deutsches Elektronen Synchrotron (DESY), the Max Planck Research Department for Structural Dynamics at the University of Hamburg (MPSD), the Max Planck Advanced Study Group (MP-ASG), the University of Hamburg, and European XFEL GmbH.

Multiple PhD positions

PhD Programme

IMPRS-UFAST is a structured PhD programme which offers exciting training opportunities in the field of ultrafast imaging with a view to exploring structural changes of atoms, molecules, condensed, biological, or warm dense matter on femtosecond time scales. The School is interdisciplinary in scope and encourages cross-disciplinary thesis research. Supervision and teaching within the School are a synergistic effort of experts from relevant fields within Physics, Chemistry and touching on Biology. Thesis research is complemented by a programme of lectures, interactive workshops, advanced courses, and an annual retreat, and general academic and soft skills courses.

The duration of the programme is 3 years. All doctoral positions within the IMPRS are fully funded. The language of the programme is English. The location of the School is on the DESY premises in Hamburg.

PhD Thesis Topics

Specific research areas include theoretical and practical 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, and their relevance and application in Chemistry, Biology and Medicine. (for possible PhD thesis topics please see:

http://www.imprs-ufast.de/application_admission/

Apply

IMPRS-UFAST welcomes applications from qualified and motivated students world-wide. Applicants will hold (or are about to receive) an MSc, a German "Diplom" or an equivalent degree in an area relevant to the programme.

Applications for entry in October 2012 are now open. Please apply online under http://www.imprs-ufast.de/application_admission/application_process/

Application deadline is 9th December 2011.

PhD studies start in autumn 2012. Earlier start dates may be possible.

Further information on the IMPRS-UFAST can be found on www.imprs-ufast.de .