Call for 2015 DESY-ONACPR Fellowship Applicants

## **Code: DESY/2015/4**

## **Research Laboratory: DESY**

### Division/Group: CFEL-FS2

### Supervising scientist: Franz X. Kärtner Email/Phone: [franz.kaertner@cfel.de/](mailto:franz.kaertner@cfel.de/) 040 8998 6350

### Research Field: Ultrafast Optics and X-ray Sources

**Position:** Postdoctoral Research in Strong-Field THz Phenomena

Intramolecular charge transfer may occur on a few femtosecond to attosecond time scale. J. Breidbach, L.S. Cederbaum, Phys Rev. Lett. 94, 033901 (2005) and F. Remacle, R. D. Levine, PNAS 103, 6793 (2005). Here, we want to use our novel ultrabroadband waveform synthesizers spanning the UV to MID-IR to generate tightly synchronized UV and attosecond pulses ranging up to the water window to study this ultrafast intramolecular charge transfer. This work is carried out in close collaboration with other CFEL groups active in Chemical Physics and Molecular Dynamics.

**Research Area:**

**Specific Requirements:**

The postdoctoral candidate has a PhD in physics, chemistry or electrical engineering and experience in the use of high-energy femtosecond laser sources such as multi-mJ Ti:Sapphire amplifiers or Yb-pumped systems, and high-energy optical parametric amplifiers. He has used those systems for UV-pulse generation and shaping as well as attosecond pulse generation. If possible also experience in attosecond time-resolved spectroscopy is desired. We are looking for a team-oriented and enthusiastic candidate who can interact well with other team members working in attosecond pulse generation and spectroscopy.

**Work Place:** Hamburg

**Earliest Start:** December 2015 or later is possible.

**Language Requirement:** excellent spoken and written English

**Further Remarks:**