Call for 2015 DESY-ONACPR Fellowship Applicants

## **Code: DESY/2015/7**

## **Research Laboratory: DESY**

### Division/Group: FS/ Ultrafast Optics and X-Rays/ Ultrafast Fiber Optics

### Supervising scientist: Dr. Guoqing Chang Email/Phone: guoqing.chang@desy.de

### Research Field: Ultrafast optics

**Position:** Postdoctoral Research in Advanced Ultrafast Laser Technologies

for Spectroscopy

**Research Area:**

We are developing advanced ultrafast laser technologies for cutting-edge ultrafast spectroscopy of novel quantum materials and coherent nonlinear bio-optical imaging. The time-resolved measurements of topological insulators, graphene, and high-temperature superconductors need novel ultrafast laser sources—for example, high-power femtosecond lasers in the wavelength range of mid-infrared and low noise ultrafast lasers at visible and ultraviolet range. We will employ ultrafast nonlinear optics and high-power fiber laser technology to implement a multi-wavelength laser platform, which allows us to discover interesting ultrafast dynamics and nonlinear optical properties of the quantum materials as well as apply to novel multipoton bio-optical imaging.

**Specific Requirements:**

We are seeking motivated and enthusiastic postdoctoral researchers to join our group at CFEL (Center for Free-Electron Laser), Hamburg, Germany. Strong experimental expertise in the following three fields is preferred: (1) multi-photon spectroscopy and microscopy, (2) femtosecond laser frequency combs, and (3) high power/energy few-cycle lasers.

**Work Place:** Hamburg

**Earliest Start:** November 2015

**Language Requirement:** (please note that we require for all candidates proven records of English, e.g. CAE certificate)Fluency in English

**Further Remarks:**