



## Call for 2014 DESY-ONACPR Fellowship Applicants

**Research Laboratory:** DESY  
**Division/Group:** Ultrafast Optics and X-Rays/ Ultrafast Fiber Optics  
**Supervising scientist:** Dr. Guoqing Chang  
**Email/Phone:** [guoqing.chang@desy.de](mailto:guoqing.chang@desy.de), +49-40-8998-6365  
**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 the 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 the novel multiphoton 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.

**For more information please visit:**

[http://photon-science.desy.de/research/desy\\_cfel/index\\_eng.html](http://photon-science.desy.de/research/desy_cfel/index_eng.html)

**Work Place:** Hamburg  
**Earliest Start:** November 2014  
**Language Requirement:** please note that we require for all candidates proven records of English, e.g. CAE certificate or other certificate with the same level.  
**Application Code:** DESY/2014/6  
**Further Remarks:**