



# ATTOSECOND SCIENCE.

## DESY, Hamburg location, is seeking: Postdoctoral Scientist (f/m) for 2D Optical Spectroscopy

### DESY

DESY is one of the world's leading research centres for photon science, particle and astroparticle physics as well as accelerator physics.

In the framework of the ERG Synergy Grant project AXSIS (Attosecond X-ray Science: Imaging and Spectroscopy) a team of international scientists is designing and building compact attosecond hard X-ray sources to explore their use in attosecond serial X-ray crystallography and spectroscopy to make movies of biological, chemical and physical processes on an attosecond time scale with atomic resolution.

### The position

- Develop two-dimensional Fourier transform optical spectroscopy for the AXSIS project funded by the European Research Council
- Build the 2D ultrafast optical instrument and develop the data acquisition and processing solution
- Work with the AXSIS team to interface the optical instrumentation with X-ray beamlines at the synchrotron PETRA III and free-electron lasers (XFEL and the attosecond compact X-ray source)
- Design and conduct 2D ultrafast optical experiments on bioorganic antenna complexes and large protein-cofactor complexes, including Photosystem I and II
- Work with AXSIS team on time-resolved studies that combine X-ray diffraction, X-ray spectroscopy and 2D ultrafast optical spectroscopy experiments

### Requirements

- PhD in physics, chemistry, engineering or related fields
- Experience in the field of ultrafast time-resolved optical spectroscopy
- Experience with 2D ultrafast optical spectroscopy on biological samples is desired
- Experience with instrument control and data acquisition programming
- Be eager to work in an interdisciplinary team that spans physics and chemistry with biology
- Experience with highly collaborative interdisciplinary research is desired
- Excellent command of English language, both oral and written

For further information please contact Prof. Henry Chapman +49-40-8998-4155 ([henry.chapman@desy.de](mailto:henry.chapman@desy.de)) or Prof. Petra Fromme +49-40-8998-6204 ([petra.fromme@cfel.de](mailto:petra.fromme@cfel.de)).

The position is limited until 31.07.2020.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Handicapped persons will be given preference to other equally qualified applicants. DESY operates flexible work schemes. DESY is an equal opportunity, affirmative action employer and encourages applications from women. Vacant positions at DESY are in general open to part-time-work. During each application procedure DESY will assess whether the post can be filled with part-time employees. There is a bilingual kindergarten on the DESY site.

We are looking forward to your application quoting the reference code preferably via our electronic application System: Online-Application

### Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: FSMA032/2017

Notkestraße 85 | 22607 Hamburg | Germany | Phone: +49 40 8998-3392

Email: [recruitment@desy.de](mailto:recruitment@desy.de)

**Deadline for applications: Bis zur Besetzung der Position.**

**[www.desy.de](http://www.desy.de)**