



For our location in Hamburg we are seeking:

Scientist/Postdoctoral fellow - Computational photon science

DESY

DESY, with its 2700 employees at its two locations in Hamburg and Zeuthen, is one of the world's leading research centres. Its research focuses on decoding the structure and function of matter, from the smallest particles of the universe to the building blocks of life. In this way, DESY contributes to solving the major questions and urgent challenges facing science, society and industry. With its ultramodern research infrastructure, its interdisciplinary research platforms and its international networks, DESY offers a highly attractive working environment in the fields of science, technology and administration as well as for the education of highly qualified young scientists.

The Center for Data and Computing in Natural Science (CDCS) is a new scientific institution formed as a partnership between DESY, the University of Hamburg, and the Technical University of Hamburg. CDCS is dedicated to the development and application of modern information technologies (data science, artificial intelligence, scientific computing) to scientific problems. Cross-disciplinary labs (CDL) integrate scientific groups in the natural sciences with core IT and mathematics specialties in a flexible structure. This position in CDL-2 focusses on applications in photon science.

The position

- Development of novel methods for time resolved structure determination from SFX data; or development of improved data processing for 3D X-ray fluorescence / absorption tomography reconstruction (depending on interest and skills)
- Participation in experiments at synchrotron and X-ray free electron laser sources
- Writing of academic publications and presentation of results at conferences
- Networking with other CDLs and the ICU in CDCS, and with DESY computer science
- Active participation in application for third party funding and project execution

Requirements

- PhD in computer science, physics, applied mathematics, or related areas
- Appropriate programming abilities in C++ and/or Python
- Experience with high performance and parallel computing
- Experience in collaborative software development
- Ability to translate scientific problems into practical computing solutions
- A good spoken and written command of English

For further information please contact Dr. Anton Barty, +49-40-8998-5783 (anton.barty@desy.de).

The position is limited to 3 years.

Salary and benefits are commensurate with those of public service organisations in Germany. Classification is based upon qualifications and assigned duties. Persons with disabilities 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.

We are looking forward to your application via our application system: www.desy.de/onlineapplication

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Deadline for applications: Until February, 15 2021 or until the position is filled.