



For our location in Hamburg we are seeking:

## Postdoc for Operando X-Ray Electrocatalysis

Remuneration Group 13 | Limited: 2 + 1 years | Starting date: earliest possible, **application deadline: 31.7.2023**

DESY, with more than 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 DESY Nanolab has an active in-house research program within the fields of X-ray physics and nanoscience. In addition, it provides characterisation and preparation methods which are complementary to the techniques available at the different DESY accelerator-based light sources. We are seeking a talented postdoctoral researcher to perform operando electro chemistry and electro catalysis experiments relevant for the current energy transition. The aim of the project is to gain fundamental insight into reactions under industrially relevant conditions of electrochemical energy conversion or storage by operando synchrotron experiments on model and applied systems. For more information about our group see [https://photon-science.desy.de/research/research\\_teams/x\\_ray\\_physics\\_and\\_nanoscience/index\\_eng.html](https://photon-science.desy.de/research/research_teams/x_ray_physics_and_nanoscience/index_eng.html) and [nanolab.desy.de](https://nanolab.desy.de).

### About your role:

- Operate and improve dedicated electrochemistry and catalysis setups for x-ray diffraction
- Preparation and characterisation of model catalyst nanoparticle samples
- Operando xrd experiments at PETRA III and the ESRF
- Data analysis and manuscript writing

### Good reasons to join:

Look forward to a unique working environment on our international research campus. We attach particular importance to appreciative cooperation and the well-being of our DESY employees. Gender equality is an important aspect for us. To support work life balance we offer flexible working hours, variable part-time, job-sharing models and participation in mobile work. You will benefit from our family-friendly and collegial atmosphere, our established health management and occupational pension provision. As a public funded employer, we offer you a secure workplace and facilitate your individual career with our comprehensive training and development opportunities. Remuneration is according to the regulations of the TV-AVH. DESY offers its employees a financial supplement for a job ticket at both locations.

### About you:

- PhD in chemistry, physics or material science
- Experience in electrochemistry
- Experience with in situ / operando experiments
- Experience with X-ray and / or electron diffraction
- Experience with ultra-high vacuum technics is an asset
- Experience with electrocatalysis and nanoscience would be an advantage
- Very good knowledge of English (both speaking and writing)
- is mandatory
- Ability to work in team

**For further information and application submission please contact Prof. Andreas Stierle** at +49 40 8998-2005 ([andreas.stierle@desy.de](mailto:andreas.stierle@desy.de)).

DESY promotes equal opportunities and diversity. The professional development of women is very important to us and therefore we strongly encourage women to apply for the vacant position. Applications from severely disabled persons will be given preference if they are equally qualified.

You can find further information here:  
<https://www.desy.de/career/>

Deutsches Elektronen-Synchrotron DESY  
A Research Centre of the Helmholtz Association