



For our location in Hamburg we are seeking:

Programmer for development of scientific data services in close collaboration with the scientific community/DAPHNE4NFDI

Remuneration Group 13 | Limited: 30.09.2026 | Starting date: earliest possible | ID: FSMA058/2022 | Deadline: 26.10.2022 | Full-time/Part-time

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 scientific computing group in DESY Photon Science (FS-SC) develops algorithms and scientific analysis software for experiments at synchrotron X-ray sources (PETRA III/IV), X-ray lasers (FLASH2020+/EuXFEL), and research groups in the photon sciences at DESY. We work closely with scientists to develop efficient data analysis solutions in an international research environment using state of the art detectors and instrumentation applied to cutting edge science applications. Our role is to efficiently analyse complex multi-terabyte data sets at high data rates to deliver science results using distributed high-performance computing and storage infrastructure, exploiting new algorithms and developing sustainable research software for the science community. We also lead the DAPHNE4NFDI project within the National Research Data Infrastructure Germany (NFDI). DAPHNE4NFDI is a partnership between 7 research institutions and 11 universities from different scientific disciplines to enable open access to research Data from Photon and Neutron Experiments, to integrate user-oriented data management and analysis solutions and to form an open software ecosystem using facility infrastructure. We are looking to strengthen our group and the DAPHNE4NFDI project with persons that are eager to apply their problem-solving skills to the benefit of different scientific communities. The unique opportunity is to create solutions at the intersection of software development and the practical needs of the wider scientific community - both inside and outside DESY - to increase scientific output. Current tasks include the collection and preparation of data for analysis, including the standardisation of formats and the integration of user-facing services such as electronic logbooks. Candidates should have an understanding of both the requirements of scientific methods mentioned above as well as the technical knowledge to develop them collaboratively together with the beamline scientists.

About your role:

- Support the development and deployment of software for scientific data processing and data management
- Interact with beamline scientists, users and the wider science community
- Translate instrument-specific parameters into standard cross-instrument and cross-facility formats
- Write high-quality, maintainable code and documentation, and deploy software in a reliable production environment

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 and job-sharing. 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:

- A university degree in physics, computer science, or a related subject; or comparable practical experience
- Knowledge of and experience in collaborative software deployment (C/C++, Python) and CI/CD (Gitlab)
- Knowledge of a Linux software environment, shell scripting, and interacting with web-based services
- Good command (written and spoken) of English, German proficiency may be useful
- Enthusiastic, self-motivated and pro-active with proven organisational and communication skills
- Knowledge of physics and/or photon science experiments at large scale facilities is an advantage

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

Please submit your complete application documents (letter of motivation, CV and relevant certificates) via our application portal.

We look forward to receiving your application via our application portal:

[-> Apply now](#)

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/>

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