



Accelerators | Photon Science | Particle Physics
Deutsches Elektronen-Synchrotron
A Research Centre of the Helmholtz Association

CAREER CHANCES

DESY is constantly seeking:

Electrical engineers/Computer Scientists (f/m) - Firmware Development

DESY

DESY is one of the world's leading research centers for investigating the structure of matter. Located in the metropolitan area of Hamburg, Germany, DESY uses its accelerators for photon science, particle and astroparticle physics as well as accelerator physics. That makes DESY not only a magnet for more than 3000 guest researchers from over 40 countries every year, but also a coveted partner for national and international cooperations.

Here at DESY, creative and motivated minds from home and abroad will find challenging and ambitious tasks in an international environment.

Tasks:

- Firmware development for radio frequency control systems
- Programming of driver software for hardware operation in electronic crates
- Software development for the automation and protection of high power amplifiers
- Programming of high-speed digital links and high-rate analog-to-digital converters
- Implementation of multiple-in-multiple-out feedback controllers in VHDL

Requirements:

- Very good knowledge in the construction, functionality and programming of digital hardware
- Knowledge of FPGA technology of XILINX and VHDL programming
- Degree in physics, electronic engineering or computer science
- Good knowledge in the theory of system communication
- Experience in C++ programming of front-end servers
- Knowledge in fields like microwave electronics, optical communication or accelerator physics
- Good team worker and good English skills

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