



HALBLEITERLABOR DER MAX-PLANCK-GESELLSCHAFT

The MPG semiconductor laboratory (HLL) is a central institution of the Max Planck Society. In collaboration with the supporting Max Planck Institutes, the HLL does research and development of scientific grade semiconductor detectors and detector systems tailor-made for the use in a large variety of cutting edge experiments supported by the partner institutes. For our laboratory located in Munich we are looking for a

**computer scientist or physicist (PhD) (f/m)
with special focus on hardware oriented programming / data acquisition systems**

Reference number: HLL 2/2018

You will be working with an interdisciplinary team of Scientists, Engineers and Technicians. You will contribute to conceptual design, development and realization of scientific grade detector systems for research at the leading edge. At first, software development for a detector system for TEM imaging will be your main focus.

The position

- develop sever based applications for high speed storage of large data volumes (UDP-stream) for use within the environment of our data acquisition system based on 10 GBit Ethernet and support the firmware development on the SoC (System-On-Chip) based components on the instrument side.
- create software solutions and user applications for configuration, housekeeping and online monitoring including user interface.
- advance the software of the detector system starting at the prototype level during qualification and commissioning till the use of the instruments in-field.
- adapt the existing data analysis framework to the new type of data and support the data preprocessing and analysis.

Your qualification

- an academic degree (PhD) in computer science or physics.
- Knowledge in computer engineering/ hardware-oriented programming as well as practical experience with Network protocols (TCP / UDP).
- Expert knowledge on Linux based systems (kernel optimization). C/C++ and Python skills are required; skills in Java, NFS and the RCP toolkit are highly desirable.
- Know-how in the fields of user application development and databases, HTML, Web services, and experience in Root is welcome.
- Personal initiative, determination and commitment and creativity are highly valued as well as communication skills and the ability to work in a team.
- Good command of the English language is mandatory.

Our offer

- An interesting and challenging position at the interface between fundamental and computer/applied science in a highly motivated and dynamic team within the scope of international leading research.
- Salary and benefits commensurate with public service pay (TVöD Bund).
- Contract initially limited to 2 years with the possibility of an extension.

The Max Planck Society is an equal opportunity employer. The goal is to enhance the percentage of women in functions where they are underrepresented. Women, therefore, are especially encouraged to apply. The Society is committed to employing more handicapped people. Applications of handicapped people are particularly welcome. Detailed information about the Semiconductor Laboratory can be found at <http://www.hll.mpg.de>. If you have any questions, please contact Dr. Jelena Ninkovic, phone: +49 89 83940049 Please send your complete application with reference number HLL 02/2018 to jobs@mpg.de.

Halbleiterlabor der Max-Planck-Gesellschaft

Verwaltung durch das:

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

Personalstelle

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