



The Paul Scherrer Institute PSI is the largest research institute for natural and engineering sciences within Switzerland. We perform cutting-edge research in the fields of matter and materials, energy and environment and human health. By performing fundamental and applied research, we work on sustainable solutions for major challenges facing society, science and economy. PSI is committed to the training of future generations. Therefore, about one quarter of our staff are post-docs, post-graduates or apprentices. Altogether, PSI employs 2100 people.

An upgrade of the Radio-Frequency RF waveguide network for the SLS Linear Accelerator linac is under investigation in order to guarantee the reliability of the linac for the future operation of SLS 2.0. The proposed upgrade consists of the development of key RF technology, such as a new RF pulse compressor, a phase shifter and a power divider.

For the Large Research Facilities Division we are looking for a

Trainee

Mechanical design and thermal analysis of key RF components for the PSI Linear Accelerators Linac

Your tasks

You will participate in the study of the thermal-mechanical design of these new RF components by using the Multiphysics software ANSYS, which is based on the finite element method. Furthermore, you will actively join the discussion with engineers and technicians at the PSI workshop in order to give consulting and support to the RF section in the evaluation and realization of these new RF components.

Your profile

- You are a physics / engineering student (minimum 4 semesters)
- You are motivated in performing numerical simulations and you have a general interest in designing products that are actually manufactured
- You have basic skills in programming
- You are open-minded, communicative and enjoy working in an international team
- You have not yet completed your Master's thesis

We offer

Our institution is based on an interdisciplinary, innovative and dynamic collaboration.

The contract will be limited to 3 months.

For further information, please contact Mr Reto Fortunati, phone +41 56 310 23 05.

Please submit your application online for the position as a Trainee (index no. 8415-T1).

Paul Scherrer Institut Human Resources Management, Leandra Horn, 5232 Villigen PSI, Switzerland

➔ Apply online now