

Since its establishment in 1907, the Physikalisch-Meteorologisches Observatorium Davos (PMOD) has been studying the influence of solar radiation on the Earth's climate. At the request of the World Meteorological Organization (WMO), the Federal Council decided in 1970 to finance a calibration center for radiation measurement as Switzerland's contribution to the World Weather Monitoring Program of the WMO. Following this decision, the PMOD was commissioned to establish and operate the World Radiation Center (WRC). PMOD/WRC develops and builds radiometers that are among the most accurate in the world, used both on the ground and in space. The PMOD/WRC has close links to the Physics Department of the ETHZ through the institute director Prof. Dr. Louise Harra.

We are looking for a

Space Electronics Development Engineer (Dipl.-Ing., FH/ETH) (80-100%)

Job Description

The PMOD/WRC Technical Department is seeking an Electronics Engineer for the design, fabrication, testing, and integration of scientific space instruments. Your main tasks are:

- Design schematics and layouts for printed circuit boards (PCBs) used in both digital and analog systems, in accordance with ESA space standards.
- Take responsibility for the electronic systems of space instruments, ensuring functionality and reliability in harsh environments.
- Assemble and test PCBs, including hands-on soldering of prototypes.
- Develop comprehensive test plans, supervise test execution, and compile detailed technical reports.
- Procure, handle, and qualify high-reliability components for space applications.
- Document hardware and instrumentation in line with ESA/ECSS standards.
- Work effectively and flexibly in a dynamic, international team environment.
- Tackle complex engineering challenges collaboratively within a highly skilled team.
- Contribute innovative ideas to advance cutting-edge space technology.
- Provide technical support and guidance to subcontractors developing space electronics in industry.

Requirements

Below are the required must-have skills for the job; additional skills are welcome:

- Completed apprenticeship as an electronics technician with a university diploma (FH/ETH).
- Familiarity with Altium, Python, and FPGA design and development.
- Willingness and ability to solve technically demanding tasks.
- Eagerness to learn.
- Languages: Fluent in English (written and spoken); good German knowledge is an asset.
- Experience in developing hardware for space applications and applying ECSS standards is an asset.

What we offer

We provide an attractive workspace in Davos within a collaborative and interdisciplinary environment. Close connections with international collaborators and agencies are a fundamental pillar of our space projects. We regularly host international visitors and organize international calibration campaigns. We offer excellent working conditions, along with a salary that is internationally competitive. We provide flexible working for staff. With a staff of 50, there is a friendly atmosphere in the institute with regular social events. Visit our [gender equality plan](#) webpage to find out how we ensure a fair and open environment that allows everyone to grow and flourish.

Application Information

We are looking for a suitable candidate starting on **1st of August 2025** or by agreement. Please send your complete application by **end of Mai 2025** via e-mail to the head of human resources, eliane.tobler@pmodwrc.ch.

For further information, please contact:

Dany Pfiffner, Co-Head of the Technical Department (daniel.pfiffner@pmodwrc.ch), or
Valeria Büchel, Co-Head of the Technical Department (valeria.buechel@pmodwrc.ch)