

Scientist in optical radiometry

Our Institute operates the World Radiation Center (WRC) on behalf of the World Meteorological Organisation. We develop and maintain reference radiometers and spectroradiometers to ensure worldwide homogenisation of all meteorological radiation measurements (www.pmodwrc.ch). We characterise and calibrate radiation instrumentation on our measurement platforms outdoors and in our optical laboratory. We have been designated by the Swiss National Metrology Institute METAS as designated institute for solar irradiance and are a member of EURAMET and the CIPM. The PMOD/WRC has close links to the Physics Department of the ETHZ through the institute director Prof. Dr. Louise Harra.

Job description

We are looking for an 80%-100% FTE scientist or technical engineer to join our team in the World Radiation Center. You will help in the calibration and characterisation of our radiometric instruments and facilities as well as the calibration of customer instruments. Furthermore, you will have the opportunity to participate in three international research projects within the European Partnership on Metrology which will start in 2023:

- New calibration standards and methods for radiometry and photometry after phaseout of incandescent lamps (NEWSTAND).
- Self-calibrating photodiodes for UV and exploitation of induced junction technology (S-CALe Up).
- Metrology for wearable light loggers and optical radiation dosimeters (MeLiDos).

Requirements

Essential experience, skills, and characteristics:

- A PhD in experimental physics or comparable degree in a technically oriented field.
- Excellent written and spoken english proficiency.
- Ability to work independently and in a team.
- Occasional participation to project meetings & experimental campaigns at various places in Europe.
- Publication track record in international peer-reviewed journals.
- Good programming skills in a high level language (Matlab, Python, ...)

Desirable criteria:

- Experience in optical radiometry.
- Experience in working with a quality system such as ISO/IEC 17025.
- Knowledge in project management and reporting.

What we offer

A friendly working environment in a reputed research institute in a beautiful touristic town in the Swiss Alps. We respect and support the compatibility of professional and private life and promote individual development opportunities. In line with our values, we encourage an inclusive culture. We promote equality of opportunity, value diversity and nurture a working and learning environment in which the rights and dignity of all our staff and students are respected. Visit our [gender equality plan](#) web-page 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 1 September 2023 or by agreement. The initial contract will be for 2 years with the possibility of extension. Please send your complete application by April 11, 2023 via e-mail to the head of human resources, Eliane.Tobler@pmodwrc.ch:

- Curriculum Vitae.
- Up to 5 relevant peer-reviewed publications.
- List of project participations.
- Name and contact detail details of two potential references.

The interviews will be held either physically at PMOD/WRC or via suitable remote video platform in April and May. You will be informed of the outcome as soon as we have found a suitable candidate. For further information, please contact Dr. Julian Gröbner, co-head of the World Radiation Center (julian.groebner@pmodwrc.ch or +41 81 417 5157).