


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 future technologies, energy and climate, health innovation and fundamentals of nature. 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 2300 people.

Your PhD project will be centred around the understanding the interplay between organic and inorganic nitrate present in aerosols, using chemical ionization mass spectrometry, oxidative potential measurements, and the PSI Atmospheric Chemistry Simulation chamber (PACS).

For the Laboratory of Atmospheric Chemistry we are looking for a

PhD Student in atmospheric science

07.10.2025 • Doctoral • 5504-24323 • 100% 

[Apply online now](#)

Your tasks

- You will characterize, operate and calibrate an online mass spectrometer equipped with an extractive electrospray ionization mass spectrometer to measure both inorganic and organic components of the aerosol
- You will also learn how to operate an instrument to measure oxidative potential
- You will prepare for and become an expert in conducting experiments at the PACS chamber
- This involves the development of the experimental run plan, the operation and maintenance of the instruments and the operation of the PACS chamber
- Your work will involve the collaborative experiments with various collaborators, including international partners

Your profile

- Master's degree in physical chemistry, chemistry, environmental sciences or a related field
- Ability to produce data under supervision and capability of critical analysis, evaluation and synthesis of new and complex ideas
- Ability to communicate the outcome of your research
- Good interpersonal skills, team player
- Good knowledge of English (written and spoken)

We offer

Our institution is based on an interdisciplinary, innovative and dynamic collaboration. You will profit from a systematic training on the job, in addition to personal development possibilities and our pronounced vocational training culture. If you wish to optimally combine work and family life or other personal interests, we are able to support you with our modern employment conditions and the on-site infrastructure.

For further information, please contact Dr David M. Bell, mail david.bell@psi.ch.

Please submit your application online by **7 November 2025** (including addresses of referees) for the position as a PhD Student (Index-Nr. 5504-24323).

Paul Scherrer Institute, Human Resources Management, Pascale Bärtschi, 5232 Villigen PSI, Switzerland