



The **Soil Chemistry Group of Prof. Ruben Kretzschmar** at ETH Zurich is inviting applications for

4 PhD positions in Environmental Geochemistry

The research will be conducted within the ERC project “IRMIDYN: Iron mineral dynamics in soils and sediments: Moving the frontier toward in-situ studies”. As part of a larger team, you will contribute to the development of novel approaches for investigating iron mineral transformations in redox-dynamic soil/sediment environments and their influence on trace element cycling. You will conduct laboratory and field studies on selected iron mineral transformation processes and their influence on trace elements, using state-of-the-art experimental and analytical techniques including stable isotope tracers, synchrotron spectroscopy, micro-Raman spectroscopy, Mössbauer spectroscopy, and others. This will provide novel insights into the cycling of iron and other elements in the environment, and will also have implications for contaminated site remediation, corrosion, archaeology, and other fields. The ERC project will involve 2 postdocs and 4 PhD students, in addition to permanent staff.

The ideal candidates are highly motivated for scientific research in environmental geochemistry and mineralogy and the fate of inorganic contaminants. Applicants must hold an MSc degree (or equivalent) in environmental sciences, soil sciences, geoecology, geology, mineralogy, crystallography, chemistry, or a related natural science discipline. Good knowledge of spoken and written English as well as excellent communication and team skills are expected. Employment will be according to standard regulations of ETH Zurich. The ERC project will officially start November 1, 2018, but there is some flexibility with the starting date (upon mutual agreement).

We look forward to receiving your online application including a cover letter describing the motivation and interests of the candidate, a CV, copy of bachelor and master transcripts, addresses of 2-3 potential referees, and a summary of the applicant's master thesis (if already completed). The search will continue until the positions are filled and the online application window has been closed (not before July 31). Please note that we exclusively accept applications submitted through our [online application portal](#). Applications via email or postal services will not be considered.

For further information please visit our website www.soilchem.ethz.ch. If you have questions about the position, please, contact Prof. Ruben Kretzschmar by e-mail kretzschmar@env.ethz.ch (no applications).

Online applications: <https://apply.refline.ch/845721/6177/pub/1/index.html>