



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

## 2 Postdoc 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 support PhD students and conduct own research on selected iron mineral transformation processes and their influence on trace elements, using state-of-the-art experimental and analytical techniques. The expected results will provide novel insights into the cycling of iron and other elements in the environment and will have implications also in other fields of research such as, e.g., environmental engineering (e.g., for contaminated site remediation), material sciences (e.g., for research on corrosion), and archaeology. The ERC project will involve 2 postdocs and 4 PhD students, in addition to permanent staff. Both postdoc positions are funded for up to 4 years each.

**The ideal candidates** are highly motivated for scientific research in environmental geochemistry and mineralogy and the fate of inorganic contaminants. Applicants must hold a PhD degree in a related field and possess a strong background in environmental geochemistry as well as a documented record of previous research accomplishments. Experience in one or more of the following techniques would be an advantage, but is not required: enriched stable metal isotope analysis, micro-Raman spectroscopy, synchrotron X-ray absorption spectroscopy, and Mössbauer spectroscopy. Good knowledge of spoken and written English as well as excellent communication and team skills are expected. The employment will be according to standard regulations of ETH Zurich. The ERC project will officially start November 1, 2018, but there will be some flexibility with regard to the starting dates (upon mutual agreement).

**We look forward** to receiving your online application including a cover letter describing the motivation of the candidate for the position, a CV including addresses of 2-3 potential referees, copies of BSc/MSc and PhD transcripts, a summary of the applicant's PhD thesis (if already completed), and a statement of research interests and career plan (maximum 2 pages). 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](http://www.soilchem.ethz.ch). If you have questions about the position, please, contact Prof. Ruben Kretzschmar by e-mail [kretzschmar@env.ethz.ch](mailto:kretzschmar@env.ethz.ch) (no applications).

**Online applications:** <https://apply.refline.ch/845721/6176/pub/1/index.html>