



Senior Scientist in Soil Biogeochemistry Fixed-term Senior Research Associate / Lecturer (Oberassistent) Position

We invite applications for a fixed-term Senior Research Associate / Lecturer position in Soil Biogeochemistry. Our group works on "Terrestrial carbon cycle (and global change)". We seek to understand the influence of anthropogenic environmental change, such as increasing temperature, and higher CO₂-concentrations on the terrestrial carbon cycle focusing on the plant-soil-microbe system. <https://www.geo.uzh.ch/en/units/2b.html>. The position is housed in the UZH Geography Department, and associated with its internationally reputed Physical Geography and Remote Sensing Units.

We seek a young and highly motivated researcher who will bring an innovative research agenda to our group, and who eventually will be successful in obtaining external funding, leading an own research group, work effectively on interdisciplinary and collaborative projects, including graduate-student supervisory committees, contribute to teaching graduate seminars and undergraduate courses in the department's soil biogeochemistry curriculum, including general soil science field classes.

In our present projects we i) take advantage of existing multi-year deep soil warming field experiments, and use the rapidly evolving methodological development of isotopic labeling and molecular markers to resolve dynamics as root-microbial-mineral interactions. ii) adapt modeling frameworks to both extend the impact of your own experimental data, and to improve our capability to model carbon stabilization and loss in terrestrial systems, iii) explore innovative ways to characterize vegetation on a landscape scale using spectroscopic remote sensing tools combined with pigment geochemistry, and environmental DNA <https://www.gcb.uzh.ch/en.html>

To be successful you ideally will have: i) demonstrated experience in the analysis and interpretation of experiments to trace stable isotopes in the environment, iii) interest in adapting existing models of terrestrial carbon and nutrient flows, and iii) the ability to work effectively as part of a multi-disciplinary research team, plus the motivation and discipline to carry out autonomous research.

Requirements include a Ph.D. in soil biogeochemistry or a related discipline, e.g. environmental or soil sciences, geo-ecology, physical geography, and some postdoctoral work experience. Good knowledge of English is essential. Applicants should have a well-established record in one or more of the areas outlined above, evidenced by publications in refereed international journals and participation in international meetings.

The appointment will be made on an annual basis for the first year with opportunity for multi-year extensions (potentially up to 6 years). Start from May 2020 or upon mutual agreement. Applications from women and under-represented groups are highly encouraged. Send a letter of application, CV, statement of research interests and addresses of three potential references to Prof. Dr. Michael W. I. Schmidt, University of Zurich, Winterthurerstr. 190, 8057 Zürich, Switzerland. Single pdf file to michael.schmidt@geo.uzh.ch. For further details contact M. Schmidt. Twitter: @MWISchmidt. Review of applications will continue until the position is filled.

