

The Research Group “Soil Biogeochemistry” at the University of Bayreuth offers

## One PhD position

The position will be limited to three years and will start on January 15, 2019. The salary is in accordance with the German Public Service salary scale (TV-L E13) with 75% of the regular working hours.

### **Microbial element cycling as a driver of soil formation**

The project is part of the second phase of the priority program “Earthshape” ([www.earthshape.net](http://www.earthshape.net)) funded by the German Research Foundation. The responsibility of the doctoral researcher will be to investigate cycling of carbon (C) and nitrogen (N) in soils along a climate gradient in the Coastal Cordillera of Chile. More specifically, the tasks of the PhD student will be (i) to quantify the age of total organic C and CO<sub>2</sub>-C in soils and saprolites of the climate gradient using <sup>14</sup>C, (ii) to study microbial respiration and microbial biomass in soils and saprolites of the climate gradient, and (iii) to investigate N<sub>2</sub> fixation in soils of the climate gradient.

### **Qualifications**

- Successfully completed Master's degree in geocology, soil science, microbiology, environmental sciences or similar
- Experience in lab work (soil science, environmental chemistry, environmental microbiology, etc.)
- Ability to conduct soil sampling campaigns in Chile
- Proficiency in English and very good writing skills
- Experience in working with gas samples is highly desirable
- Experience in isotope analyses is highly desirable
- Proficiency in German and Spanish is desirable

The project will be based at the University of Bayreuth. The doctoral researcher will benefit from interdisciplinary cooperations in the Earthshape consortium and will be part of a young team at the University of Bayreuth. The University of Bayreuth is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in this field. Disabled persons with equivalent aptitude will be favored.

Please send your application with the usual documents (application letter, CV, copies of records of your BSc and MSc, documents showing research experience if applicable, and contact information of two references) in electronic form as a single pdf-file to Dr. habil. Marie Spohn ([marie.spohn@uni-bayreuth.de](mailto:marie.spohn@uni-bayreuth.de)). Review of applications will start on October 1, 2018, and will continue until the position is filled.