

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

## One Postdoc position

in the project „Element cycling as driven by stoichiometric homeostasis of soil microorganisms in grassland soils”. The position will be limited to two years and will start on September 1, 2019 or as soon as possible thereafter. The salary is in accordance with the German Public Service salary scale (TV-L E13) with 100% of the regular working hours.

The project is funded by the German Research Foundation through the Emmy Noether program. The responsibility of the postdoctoral researcher will be to investigate cycling of carbon (C) and nitrogen (N) and phosphorus (P) in grassland soils in different parts of the world based on a globally coordinated element addition experiment (<http://www.nutnet.umn.edu/>). More specifically, the tasks of the postdoctoral researcher will be (i) to quantify rates of C, N and P cycling in grassland soils based on a large suite of methods, (ii) to complete and analyze a dataset on N<sub>2</sub> fixation in legumes, and (iii) to synthesize data on soil element cycling gained in the first phase of the project.

### Qualifications

- Successfully completed PhD in geoecology, soil science, environmental microbiology, environmental sciences, plant nutrition or similar
- Experience in lab work, including soil chemical analyses
- Good statistical skills and proficiency in R
- Proficiency in English and very good writing skills
- Experience in isotope analyses is highly desirable
- Proficiency in German is desirable
- Ability to conduct soil sampling campaigns abroad

The project will be based at the University of Bayreuth, and the post-doctoral researcher will be part of a young team. A technician will support the laboratory work. 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 one single pdf-file to Dr. habil. Marie Spohn ([marie.spohn@uni-bayreuth.de](mailto:marie.spohn@uni-bayreuth.de)). Review of applications will start immediately and will continue until the position is filled.

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

## One PhD or Postdoc position

in the project „Microbial element cycling as a driver of soil formation in the Coastal Cordillera of Chile”. The position is available either as a PhD position for three years with 75% of the regular working hours or as a Postdoc position for two years with 100% of the regular working hours. The position will start as soon as possible. The salary is in accordance with the German Public Service salary scale (TV-L E13).

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/post-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 researcher will be (i) to quantify the age of organic C and CO<sub>2</sub>-C in soils of the climate gradient using <sup>14</sup>C, (ii) to study microbial C cycling and microbial biomass in soils of the climate gradient using C isotopes, (iii) to investigate N<sub>2</sub> fixation in soils of the climate gradient, and (iv) to synthesize data on element cycling gained in the first and second phase of the project.

### Qualifications

- Successfully completed Master's degree in geoecology, soil science, microbiology, environmental sciences or similar for the PhD position or successfully completed PhD in the mentioned fields for the Postdoc position
- Experience in lab work including soil chemical analyses
- Experience in isotope analyses is highly desirable
- Proficiency in English and very good writing skills
- Proficiency in German and Spanish is desirable
- Ability to conduct soil sampling campaigns in Chile
- Driver's license

The project will be based at the University of Bayreuth. The doctoral/post-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 one single pdf-file to Dr. habil. Marie Spohn ([marie.spohn@uni-bayreuth.de](mailto:marie.spohn@uni-bayreuth.de)). Review of applications will start immediately and will continue until the position is filled.