

The **University of Bonn** and the **Leibniz Centre for Agricultural Landscape Research (ZALF)** e.V. invite applications for

2 Research Associates or PhD students (f/m/d)
Soil Microbiology and Biogeochemistry of the Wetland Methane Cycle
 (65% for 36 months)

Each institution will employ one coworker at the work places Bonn (Institute of Crop Science and Resource Conservation, INRES) or Müncheberg/Berlin (RA Landscape Functioning, Microbial Biogeochemistry, ZALF). Both announced positions are part of the DFG project "Methane Dynamics of Kettle Holes in a Postglacial Agricultural Landscape – Microbial Ecology and Biogeochemistry (MeDKet)". The aim of MeDKet is to gain deep insights into the soil and plant microbiome in kettle holes to explain net methane surface fluxes. These small but very abundant wetlands of the northern hemisphere play a not yet understood role for global methane emissions. Kettle holes are often impacted by agricultural land-use with unknown effects on methane emissions. Both coworkers will conduct complementary work including highly resolved CH₄ and CO₂ onsite measurements and laboratory experiments. The candidates will use molecular techniques such as ¹³C stable isotope probing, metagenomics, qPCR or metabarcoding to assess the dynamics and ecophysiology of methanotrophs and methanogens. It is encouraged that the two candidates assist each other in field and laboratory experiments.

Position 1 (University of Bonn, INRES)

Your profile:

- MSc degree (or almost finished) of a study program in (micro)biology, agriculture or related natural sciences
- Solid knowledge background in microbiology and molecular biology techniques
- Advantageous is experience in isotope analyses, NGS data analysis, AND/OR functional gene analysis of methanotrophs AND/OR methanogens
- Very good communication skills and command in English
- Highly motivated, open-minded, eager to learn and the ability to work in a team

We offer:

- Opportunity to work in an interdisciplinary research project at the University Bonn and in close collaboration with the ZALF
- Working in a collegial and open-minded atmosphere
- Excellent research facilities with well-equipped laboratories
- Salary Classification according to the collective agreement of the federal states (TV-L) 13 (65%) (including special annual payment).

Position 2 (ZALF, Research Area 1, Group MicGeo, Humboldt University of Berlin)

Your profile:

- MSc degree (or almost finished) of a study program in (micro)biology, agriculture or related natural sciences
- Solid knowledge in: metagenomics, isotope analyses, NGS data analysis, functional gene analysis, multivariate statistics AND/OR in greenhouse gas measurement
- Very good communication skills and command in English
- Highly motivated, open-minded, eager to learn and the ability to work in a team

We offer:

- Opportunity to work in an interdisciplinary research project at the ZALF and in close collaboration with partners at the University of Bonn
- A collegial and open-minded working atmosphere in a dynamic research institution
- Excellent research facilities with well-equipped laboratories

- Salary Classification according to the collective agreement of the federal states (TV-L) 13 (65%) (including special annual payment).
- PhD at Humboldt University of Berlin (Faculty of Life Sciences)

Women are particularly encouraged to apply. Applications from severely disabled persons with equal qualifications are favored. The University of Bonn and ZALF are both committed to diversity and equal opportunity. Both are certified as family-friendly institutions. Both aim to increase the proportion of women in areas in which women are under-represented and to promote particularly their careers. Both therefore urge women with relevant qualifications to apply.

Please send your application preferably by e-mail (one PDF file, max. 5 MB; packed PDF documents, archive files like zip, rar etc. Word documents cannot be processed and therefore cannot be considered!) with the usual documents, in particular CV, proof of qualification and certificates, stating the reference number **56-2021** until **September 30, 2021** to: Bewerbungen@zalf.de.

If you have any questions, please do not hesitate to contact us:

Dr. Katharina Frindte (INRES, kfrindte@uni-bonn.de) or **Prof. Dr. Steffen Kolb** (ZALF, kolb@zalf.de).

For cost reasons, application documents or extensive publications can only be returned if an adequately stamped envelope is attached.

If you apply, we collect and process your personal data in accordance with Articles 5 and 6 of the EU GDPR only for the processing of your application and for purposes that result from possible future employment with the ZALF. Your data will be deleted after six months.

You can find further information at: www.zalf.de/en/ueber_uns/Pages/Datenschutzerklaerung