

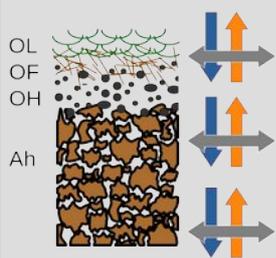
Positions for PhD projects at Soil Ecology Chair of
Freiburg University
Forest Floor: Functioning, Dynamics, and
Vulnerability in a Changing World



Forest Floor
FOR 5315



UNI
FREIBURG



The forest floor forms a unique transition between freshly decayed biomass and mineral soil. The impact of climate change on this sensitive part of forest soils raises still many unanswered questions. This is the starting point of a joint research project “Forest Floor” (Speaker: Prof. Dr. Friederike Lang, Soil Ecology Freiburg) building upon contributions of 11 international research teams and 4.8 Mio.€ initial funds granted by the German Research Foundation (DFG) for 4 year first phase.

For the two projects running at the Freiburg Chair of Soil Ecology we attached two announcements of 4-year positions for PhD students from July 2022 :

- **P4: “Nutrient dynamics along the litter – mineral soil continuum“:**
- **P5: “The architecture of the forest floor and consequences for connectivity“**

In P4 the focus is the role of forest floor in the nutrient cycling of the ecosystems, P5 questions related to water transport, aeration budget, and greenhouse gases in the forest floor.

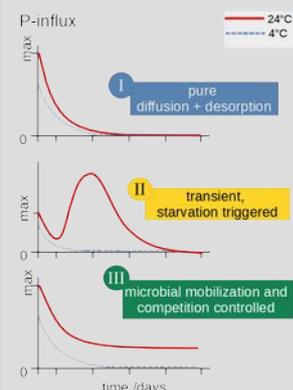
Both projects use innovative methods in an international research environment and base an on real teamwork..

Applications until: 13. June 2022

Don't hesitate to contact us for further informations!

Prof. Dr. Friederike Lang (Tel. 0761 203 3625)
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Promotionsstellen an der Professur für Bodenökologie im
Verbundforschungsprojekt
Humusaufgabe: Funktionsweise, Dynamik und
Vulnerabilität im Wandel“

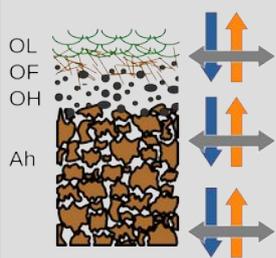


Forest Floor

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Die Humusaufgabe in Wäldern (englisch Forest Floor) ist eine einzigartige Übergangszone zwischen der frisch abgestorbenen Biomasse und dem mineralischen Boden. Der Einfluss des Klimawandels auf diese sensitive Bodenzone wirft viele offene Fragen auf. Hier setzt die kürzlich von der Deutschen Forschungsgemeinschaft (DFG) bewilligte Forschungsgruppe „Forest Floor“ (Sprecherin Prof. Dr. Friederike Lang, Bodenökologie Freiburg) an. Das gemeinsame Vorhaben von elf internationalen Forschungsprojekten wird von der DFG zunächst für 4 Jahre mit 4,8 Mio. € gefördert

An der Professur für Bodenökologie (siehe angefügte **Ausschreibungen**) sind aus hieraus zwei Projektstellen ab ca. Juli 2022 für 4 Jahre zu besetzen:

- **P4: “Nutrient dynamics along the litter – mineral soil continuum“:**
- **P5: “The architecture of the forest floor and consequences for connectivity“**

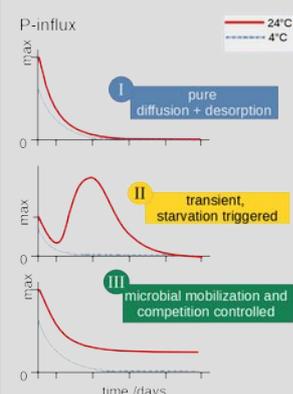
Bei P4 liegt der Schwerpunkt auf Fragen der ökosystemaren Nährstoffkreisläufe, bei P5 geht es um die Rolle der Humusaufgaben beim Wasser- und (Treibhaus)Gashaushalt.

Beide Projekte werden in einem internationalen Forschungsumfeld, mit innovativen Methoden in enger Zusammenarbeit aller Mitglieder bearbeitet.

Bewerbungsschluss ist der 13. Juni 2022

Für weitere Informationen wenden Sie sich gern auch “informell” an:

Prof. Dr. Friederike Lang (Tel. 0761 203 3625)
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PhD opportunity



The recently funded DFG Research Unit “**FOR 5315 - FOREST FLOOR: Functioning, Dynamics, and Vulnerability in a Changing World**” shall address the **influence of climate change on the forest floor**, a central but extremely sensitive part of forest soils. In close cooperation between the members of the 11 subprojects, the research unit is investigating properties and processes of forest floors along temperature and nutrient gradients. A total of 11 PhD positions are available.

Topic:

“Nutrient dynamics along the litter - mineral soil continuum”

The Chair of Soil Ecology at the University of Freiburg hereby invites applications for a 4-yr doctoral position focusing on nutrient dynamics and nutrient-carbon coupling along the litter-mineral soil continuum. Starting date is 15th July 2022. The research will be carried out in close cooperation among University of Freiburg, University of Copenhagen and the Technical University of Munich.

Candidate profile: We are looking for a highly motivated and co-operative person with an MSc degree or equivalent and a strong background in soil ecology and ecosystem analyses. The ideal candidate will have demonstrated his/her ability to successfully carry out research and communicate the results. Previous experience in field and laboratory experiments, microbial community analyses, chemical soil analyses including soil organic matter studies will be considered a plus. Experience in publishing in scientific journals is desirable. The applicant should be able to independently plan and undertake field and laboratory experiments as well as cooperate and coordinate the work with other partners of the research unit. Prolonged periods working in the field at different sites in Germany, Switzerland, and Denmark are required as well as travels to the involved Universities. A proficient statistical background and experience with R is desirable. A strong command of English is indispensable. For international candidates, knowledge of German (or a strong willingness to learn) would be beneficial to enhance the experience of living and working in Germany. In addition, the applicant should possess a valid driver's license. The salary is the German standard for doctoral students (TV-L E13 65%). The University of Freiburg is an equal opportunity employer and encourages women to apply. Severely disabled applicants with equal qualification and aptitude will be given preferential consideration.

Your application will consist of a letter of motivation, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references. Please send your application as a single PDF by email with the subject “PhD position P4 in RU FOREST FLOOR” by 13th June 2022 to Christine Schemann (Christine.schemann@bodenkunde.uni-freiburg.de). Questions regarding the content of the project may be addressed to Prof. Dr. Friederike Lang (Fritzi.Lang@Bodenkunde.uni-freiburg.de).

PhD opportunity

The recently funded DFG Research Unit “**FOR 5315 - FOREST FLOOR: Functioning, Dynamics, and Vulnerability in a Changing World**” shall address the **influence of climate change on the forest floor**, a central but extremely sensitive part of forest soils. In close cooperation between the members of the 11 subprojects, the research unit is investigating properties and processes of forest floors along temperature and nutrient gradients. A total of 11 PhD positions are available.

Topic:

“The architecture of the forest floor and consequences for connectivity”

The Chair of Soil Ecology at the University of Freiburg hereby invites applications for a 4-yr doctoral position focusing on the impact of FF architecture on transport of water, ions, and (greenhouse) gases along the litter-mineral soil continuum. Starting date 15 July 2022. The research will be carried out in close cooperation with the Universities of Freiburg and Copenhagen and the Technical University of Munich.

Candidate profile: We are looking for a highly motivated and co-operative person with a strong background in soil ecology and ecosystem analyses. The ideal candidate will have demonstrated his/her ability to successfully carry out research and communicate the results. Previous experience in field and laboratory experiments, imaging of soil structure and modelling will be considered a plus. Experience in publishing in scientific journals is desirable. The applicant should be able to independently plan and undertake field and laboratory experiments and coordinate the work with other partners of the research unit. Field campaigns of several days at different sites in Germany, Switzerland, and Denmark are required as well as travels to the involved Universities. Proficiency in data management, statistics, and modelling is desirable. A strong command of English is indispensable. For international candidates, knowledge of German (or a strong willingness to learn) would be beneficial to enhance the experience of living and working in Germany. In addition, the applicant should possess a valid B driver's license. Salary is the German standard for doctoral students (TV-L E13 65%). The University of Freiburg is an equal opportunity employer and encourages women to apply. Severely disabled applicants with equal qualification and aptitude will be given preferential consideration.

Your application will consist of a letter of motivation, a CV, academic transcripts (non-official copies are acceptable), and contact details of at least two academic references. Please send your application as a single PDF by email with the subject “PhD position P5 in RU FOREST FLOOR” by 13 June 2022 to: Christine Schemann (Christine.schemann@bodenkunde.uni-freiburg.de). Questions regarding the content of the project may be addressed to Dr. Helmer Schack-Kirchner (helmer.schack-kirchner@bodenkunde.uni-freiburg.de, Tel. xx49 761 2033612).