

The University of Bonn invites applications for a

Research Associate / PhD student (f/m) in the field of rhizosphere research

at the Institute of Crop Science and Resource Conservation (INRES). Start of the position is the **1st January 2020**, and it will be available for a period of initially three years.

The successful candidate will work in a project that is part of the cluster of excellence “PhenoRob – Robotic and phenotyping for sustainable crop production”. Aim of the project is to quantify chemical and biological rhizosphere processes. The analysis of nutrient and water uptake by the plant will be targeted using stable isotopic tracers. Microbial processes will be studied using molecular approaches. Gained knowledge will be integrated with sensing signals generated above-ground. The project will be realized in close collaboration with partners of the excellence cluster.

- Your profile:**
- Diploma or Master’s degree in the field of soil science, biology, agriculture or related natural sciences disciplines
 - Solid background in soil science and soil microbiology
 - Experience in molecular biology techniques, especially soil DNA/RNA extraction and (q)PCR, and/or isotope ratio mass spectrometry
 - Background in some of the following fields is very welcome: root and rhizosphere sampling, microbial community analyses by amplicon sequencing including data analysis, multivariate statistical analyses, water and nutrient analyses in soil and plants
 - Very good communication skills; English language skills
 - Highly motivated, open-minded, eager to learn and with a capacity for teamwork.

- We offer:**
- Opportunity to obtain a PhD
 - Research facilities with well-equipped modern laboratories
 - Opportunity to work in an interdisciplinary research project
 - Member of the Bonn International Graduate School (BIGS-TBGS), which is offering various opportunities for further PhD student training and networking
 - Salary corresponding to grade TV-L/13 (65%) in the German Public Service scheme.

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Please send your application by Email (letter of motivation, CV, list of publications, certificates, two recommendation letter(s) or reference contacts) to Prof. Dr. Claudia Knief (knief@uni-bonn.de) until **25th September 2019**. Before sending your application, combine and convert all of your documents into **one PDF file**. For further information, please visit our homepage (www.boden.uni-bonn.de), the homepage of the excellence cluster (www.phenorob.de) or contact Prof. Dr. Claudia Knief or Dr. Sara Bauke (sarabauke@uni-bonn.de).