

The University of Bonn invites applications for a

## **Research Associate / PhD student (f/m/d) in the field of rhizosphere microbiology**

in the Institute of Crop Science and Resource Conservation (INRES). Anticipated start of the DFG-funded project, which is subject to final approval, is the **1<sup>st</sup> February 2022**. The position is limited to three years.

The successful candidate will work in a project that is part of the DFG priority program “Rhizosphere spatiotemporal organization – a key to rhizosphere functions” (SPP 2089). Aim of the project is to explore the spatiotemporal flow of assimilated carbon into the root and root-associated microbiome using non-invasive root-imaging approaches (magnetic resonance imaging and positron emissions tomography) in combination with <sup>13</sup>C-stable isotope probing of root-associated microbial communities (DNA/RNA-SIP). It will be realized in close collaboration with partners from the Forschungszentrum Jülich (IGB-2).

- Your profile:**
- Diploma or Master’s degree in the field of biology, agriculture or related natural sciences disciplines
  - Solid knowledge background in microbiology and experience in molecular biology techniques, especially soil DNA/RNA extraction and PCR
  - Background in some of the following fields is very welcome: rhizosphere research, plant physiology, microbiota analysis by amplicon sequencing and NGS data analyses, multivariate statistical analyses, isotope analyses, image analyses
  - Very good communication skills and English language skills
  - Highly motivated, open-minded, eager to learn and with a capacity for teamwork.

- We offer:**
- Opportunity to obtain a PhD
  - Work in a nationwide, interdisciplinary research project (SPP 2089)
  - Interdisciplinary research project realized at the University Bonn and the Forschungszentrum Jülich (IGB-2)
  - Excellent research facilities with well-equipped laboratories
  - 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 inquiries and applications by Email (letter of motivation, CV, list of publications, copies of certificates, two recommendation letter(s) or reference contacts) to Prof. Claudia Knief, [knief@uni-bonn.de](mailto:knief@uni-bonn.de) until **30<sup>th</sup> November 2021**. Before sending your application, combine and convert all of your documents into **one PDF file**.