



securing tomorrow's resources

Scientist (f/m/d)

Institute for Epidemiology and Pathogen Diagnostic - based in Braunschweig

Application deadline: 1st October 2021 for reference number: BS-EP-WA-42-21

Your responsibilities

As part of the externally funded project "Development and evaluation of peat-reduced production systems in horticulture - Entwicklung und Bewertung von torfreduzierten Produktionssystemen im Gartenbau (ToPGa)", you will contribute to research in Subproject 2: Microbiology and Human Pathogens. The aims are to assess the impact of peat-reduced substrates on the plant and its microbiome, as well as to test whether such substrates could be a source of human pathogens in agricultural production systems. In the course of climate change, the protection of peatlands is becoming increasingly important, leading to a significant reduction in the use of peat in media used for plant growth. Pathogenic and beneficial microorganisms are focus of this subproject. Your tasks will include:

- Investigation of the influence of peat reduction or replacement on plant-associated microorganisms, the persistence of human pathogens in substrates and their ability to colonize plants and acquisition of antibiotic resistance genes;
- Elucidation of the impact of peat-reduced substrates on plant growth and immune system;
- Conducting laboratory and greenhouse experiments on biological safety levels 1 and 2;
- Preparation of reports and publication of manuscripts in peer-reviewed journals.

Your profile

- Completed studies (diploma or master's degree) in biology, microbiology, biotechnology or a comparable discipline;
- Good knowledge and experience in microbiological and molecular techniques (cultivation, PCR and qPCR, DNA/RNA isolation, 16S and/or transcriptome analysis);
- Experience in working with plants, and/or bacterial human pathogens;
- Good experience in bioinformatics and statistical methods;
- Experience with the analysis of sequencing results;
- Systematic approach and very good team, organizational and communication skills;
- Good command of the English language (German is an advantage);
- Experience in using common software (e.g. MS Office, R, SAS).

We offer

- Varied, challenging and interesting job in an international working environment;
- Part-time employment for 36 months (25,35 hours per week), until 31st October 2024;
- Possibility to obtain a PhD degree;
- The employment contract will be based on the collective agreement for the public service (TVöD);
- Remuneration according to salary group E-13 TVöD, if you have the required qualifications and skills;
- Starting date: 1st November 2021, or as early as possible.

The Julius Kühn Institute (JKI) is an equal opportunity employer. Where possible, we offer flexible working time models to reconcile work and family life. The JKI is committed to inclusion. Applications from people with disabilities are therefore expressly welcome and given special consideration in the selection process.

More information

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The Julius Kühn Institute is an institution directly subordinated to the Federal Ministry of Food and Agriculture (BMEL).

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Information on data protection can be found here: <https://www.julius-kuehn.de/en/data-protection-information-for-applicants/>.



Applying online

Please apply via the INTERAMT job portal. To do so, click on the "**Online bewerben**" button on the INTERAMT page. The deadline for your application is 1st October 2021.

Please note that the language on the INTERAMT portal is German.

Unless you have already found this vacancy via INTERAMT, our job offers are available here: <https://www.interamt.de/koop/app/trefferliste?partner=3695>

To apply, please register with INTERAMT at <https://www.interamt.de/koop/app/registrieren> or use your login if you are already a registered user. If you have any technical problems or questions regarding your registration, please contact INTERAMT directly at +49 (0) 345 4800-140 or by e-mail: kontakt@interamt.de.

Make sure to have uploaded all relevant documents for your online application by the application deadline.