



## Scientist (f/m/d)

Institute for Epidemiology and Pathogen Diagnostics - based in Braunschweig

Application deadline: 9<sup>th</sup> May 2025 for reference number: BS-EP-WA-18-25

The Institute for Epidemiology and Pathogen Diagnostics studies the host-pathogen interactions of cultivated plants at various levels including their microbiome, develops diagnostic methods and is part of the National Reference Laboratory for Quarantine Pests of the JKI. As part of these research tasks, the diverse analysis of genome, transcriptome, metabolome and microbiome data is indispensable. We need your support to evaluate the continuously increasing amounts of data using bioinformatic methods and to develop new analytical approaches!

### Your responsibilities

- establishment of a bioinformatic working group and implementation of research projects within the framework of the institute's focus;
- close collaboration with relevant working groups at JKI, including support with bioinformatics issues and data synthesis;
- development and application of bioinformatic methods (genome, transcriptome and metabolome analyses) for studying the interactions between cultivated plants, their microbiome and pathogens (viruses, bacteria, fungi, nematodes, rodents) as well as for the phylogenetic characterization of pathogens;
- implementation and validation of bioinformatic pipelines for diagnostics within the frame of the National Reference Laboratory, taking into account the EPPO standard PM7/151 ("Considerations for the use of high throughput sequencing in plant health diagnostics");
- publishing research results in scientific journals as well as presentation of research results at national and international conferences and acquisition of third-party funding.

### Your profile

- a completed academic university degree (Univ.-Dipl./M.Sc.) in biology, bioinformatics or a comparable discipline with a PhD;
- if possible, experience with the microbiome of cultivated plants or phytopathology;
- profound knowledge in high-throughput sequencing of DNA and RNA;
- solid programming skills in relevant programming languages such as Python, Perl and R, confident use of Linux and preferably knowledge of Galaxy;
- experience with sequence analysis programs such as Geneious Prime or CLC Genomics Workbench, as well as automated analysis tools such as DADA2, Vireo, PhytoPipe, MiFi or similar;
- experience with the development of analysis pipelines for genome data and database analyses;
- experience with methods of multivariate statistics (e.g. PCA, CCA, LDA), experimental design and generalized linear models; preferably knowledge of network analysis and modeling;
- proven international publication record;
- preferably, experience in acquiring third-party funded research projects;
- good written and spoken German and English skills;
- a Class B (III) driver's license and the willingness to travel for business;
- high motivation, positive work ethic, and the ability to contribute to a team in a success-oriented and constructive manner.





## We offer

- a varied, challenging and interesting job in an international working environment;
- a permanent employment with 29.25 hours per week plus an additional 9.75 hours per week for an initial period of 3 years. Various forms of part-time employment are generally possible. The employment contract will be based on the Collective Agreement for the Public Service (TVöD);
- remuneration according to salary group E 14 TVöD if you have the required qualifications and skills;
- starting date: an entry as early as possible.

The Julius Kühn Institute (JKI) is an equal opportunities employer. We live a culture of a diverse and cosmopolitan work environment. The JKI is committed to inclusion. Applications from people with disabilities are therefore expressly welcome and given special consideration in the selection process. The JKI promotes the reconciliation of work and family life and, since 2021, has been holding the **audit workandfamily** certificate ([audit berufundfamilie](#)). Where possible, we offer flexible working time models to reconcile work and family life. More information can be found [here](#).

The JKI subsidizes the Deutschlandticket for its staff, who can purchase it at a reduced subscription price of €23.28.

## More information

Prof. Dr. Johannes Hallmann

Phone: +49 (0) 3946 47-6100

E-Mail: [johannes.hallmann@julius-kuehn.de](mailto:johannes.hallmann@julius-kuehn.de)

## 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 May 9<sup>th</sup> 2025.

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

An overview of all vacancies at the Julius Kühn Institute can be found [here](#). Alternatively you can simply scan the QR code at the bottom right corner with your mobile device.

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) 385 4800-140 or by e-mail: [kontakt@interamt.de](mailto:kontakt@interamt.de).

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

If you have an international degree, please also enclose a certificate evaluation from the Central Office for Foreign Education (ZAB) with your application. If you do not yet have a certificate evaluation, you would have to apply for one upon successful application. For more information, please visit <https://zab.kmk.org/de/zeugnisbewertung>.

