



Lebensgrundlagen für morgen sichern

Scientist (f/m/d)

Institute for Resistance Research and Stress Tolerance – based in Quedlinburg

Application deadline: 17th May 2024 for the reference number: QLB-RS-WA-03-24

The Project

The DiP network (Digitization of Crop Value Chains) is establishing a model region in Saxony-Anhalt for a digitalized, climate-neutral and competitive bioeconomy, which is characterized by scientific excellence, innovative industries and attractive jobs. Not least due to the high concentration of relevant stakeholders, breeding research forms an essential cornerstone of crop value chains. As part of the project "DiPisum – digitalization-driven development of Saxony-Anhalt into an innovation center for pea breeding, cultivation and utilization", peas are to be promoted through innovations in breeding, cultivation technologies, processing and marketing. With the Institute for Resistance Research and Stress Tolerance and the Institute for Breeding Research on Horticultural Crops, two departments of the Julius Kühn Institute in Quedlinburg have jointly set the objective of enhancing the level of resistance to soil-borne pathogens in peas in DiPisum sub-project J. The aim of this project is to study the course of phytopathogenic infections in peas. Therefore, the infection processes are to be examined phytopathologically and the corresponding resistance mechanisms of relevant pathogens are to be analyzed regarding its genetic determinants.

Your tasks

- development of methods for testing against soil-borne pea pathogens;
- optimization of resistance screening for reliable phenotyping of large pea collections;
- coordination of several laboratory, greenhouse and field trials to evaluate plant genetic resources in terms of resistance;
- management of the inoculum bank of various pathogens;
- studies on the genetic and molecular basis of resistance/tolerance;
- development of molecular markers for resistance based on the analysis of genome-wide association studies and bi-parental populations;
- management, processing and statistical evaluation of data as well as management of data and knowledge transfer with cooperation partners;
- conception of further research activities;
- publication in peer-reviewed journals and presentation of results at national and international conferences in German and English.

You have

- a completed academic university degree (Univ.-Dipl./M.Sc.) in agricultural sciences, biology or a comparable discipline closely related to phytopathology, plant breeding or plant cultivation with a successfully completed PhD;
- very good knowledge of mycology or a related scientific discipline;
- practical experience in testing the resistance of cultivated plants to biotic stress;
- extensive knowledge of planning, organizing and conducting laboratory, greenhouse and field trials;
- special knowledge of legumes (especially peas) is an advantage;
- experience in experimental design and statistical analysis of scientific experiments with common statistical programs (e.g. R, Python, etc.);
- knowledge of genome-wide association studies, the development of molecular markers and the identification of candidate genes using appropriate bioinformatic methods would be desirable, but is not essential;
- a pronounced ability to work independently in a team and on a project basis;
- the ability to present findings orally and in writing;
- good written and spoken German and English language skills;
- a class B (III) driver's license and the willingness to undertake business trips lasting several days.

The Julius Kühn Institute is an institution directly subordinated to the Federal Ministry of Food and Agriculture (BMEL).
Address: Julius Kühn-Institut (JKI), Federal Research Centre for Cultivated Plants, Central Department, Erwin-Baur-Straße 27, 06484 Quedlinburg, Germany. Information on data protection can be found here: <https://www.julius-kuehn.de/en/data-protection-information-for-applicants>.





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We offer

- a varied, challenging and interesting job in an international working environment at the JKI as well as collaboration in a project team at the JKI.
- a full-time employment with 39,0 hours a week until 31th December 2028 on a third party funded project. Various forms of part-time employment are generally possible. The employment relationship is based on the collective agreement for the public service east (TVÖD-Ost).
- remuneration according to salary group E 13 TVÖD.
- an entry as early as possible.

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

The Julius Kühn Institute (JKI) is an equal opportunities employer. 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](#).

More Information

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The homepage of the DiP network can be reached via the following link: <https://www.dip-sachsen-anhalt.de/>

Apply 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 17th May 2024.

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.

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://www.kmk.org/zab/zeugnisbewertung.html>.

