



Lebensgrundlagen für morgen sichern

Scientist (m/f/d)

Institute for Strategies and Technology Assessment (SF) – Kleinmachnow location

Application deadline: 20th October 2024 for the reference number: KM-SF-WA-27-24

The project

In the MAGIC-KlimaBack project (<https://idw-online.de/de/news839992>), which is funded by the BMEL as part of the research and innovation program "Climate protection in agriculture", we are researching climate-friendly baking wheat varieties of tomorrow together with partners from the Max Rubner Institute, the Martin Luther University Halle-Wittenberg, the University of Bielefeld and KWS Saat SE. The focus here is on protein-efficient genotypes that achieve very good baking quality with less nitrogen fertilization and a comparatively low protein content. Within the consortium our team is evaluating the greenhouse gas mitigation potential of improved varieties. Using process-based agroecosystem models, we want to simulate various genotype x management x environment interactions in the cultivation of baking wheat across Germany over many years. In this way, we want to evaluate promising cultivation methods and fertilization strategies for known varieties for different regions and compare them for future protein-efficient varieties. The expected findings should help to exploit greenhouse gas mitigation potentials as effectively as possible in the future.

Your tasks

- Further development of existing agroecosystem models to simulate protein quantities and qualities in wheat cultivation based on data from project partners and secondary data;
- Germany-wide model-based assessment of grain yields, protein yields, nitrogen use efficiency and GHG emissions when growing baking wheat with conventional and improved protein use efficient varieties;
- Analysis of genotype x management x environment interactions in baking wheat cultivation with particular consideration of fertilization strategy and variety selection;
- Assessment of region-specific GHG reduction potentials using life cycle assessment and coupled agroecosystem models according to the IPCC Tier 2 & Tier 3 approach;
- Publication of research results in national and international meetings and conferences as well as national and international scientific journals;
- close cooperation with the project partners and our international team of scientists and developers in a friendly working atmosphere.

Your profile

- a completed MSc degree in agriculture, horticulture, forestry, environmental science, computer science, geography, mathematics, statistics, computer science, or a comparable discipline;
- knowledge in the areas of crop physiology and plant production;
- very good knowledge and strong interest in statistical analysis methods and modeling with e.g. R, SAS, ASReml, Python, or similar;
- initial experience in or great interest in process-based modeling;
- stamina and enjoyment of scientific work in a team;
- the ability to work independently and responsibly, including strong organizational and communication skills as well as flexibility;
- ideally experience in the preparation of scientific conference papers and peer-reviewed scientific articles;
- good knowledge of English and, if possible, German, both written and spoken.

We offer

- a diverse, demanding and interesting job in a goal- and solution-oriented working environment at the JKI as well as working in a project team at the JKI.

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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- a part-time position limited for 36 month with 25.35 hours per week to work on a third-party funded project. The employment relationship is based on the collective agreement for the public service in the East (TVÖD-Ost). The opportunity to do a doctorate is available.
- remuneration according to salary group E 13 TVöD
- an entry on 1 January 2025.

The JKI Kleinmachnow location can be easily reached from Berlin and Potsdam and is very well connected to public transport (Julius Kühn-Institut stop, 8 minutes from Berlin-Wannsee S-Bahn station).

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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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 20th October 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.

Direct: If you see any problems with applying online, send your full application with all documents as **one** pdf-document to bewerbungen@julius-kuehn.de.

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>.

