

Job advertisement

Are you looking for a new, challenging and varied job? Then apply as

Scientist (m/f/d)

at the Institute for Vegetable Crops.

Where? Geisenheim in the Rheingau cultural region (near Wiesbaden)

When? starting 01.12.2025, subject to funding approval

How? Full-time (40 hours/week), fixed-term until 30.11.2028 (§ 2 Abs. 1 WissZeitVG)

The collaborative project iSoBeD is part of the experimental fields for strengthening digitization and AI in agriculture, funded by the German BMEL (Federal Ministry of Food and Agriculture). It aims to optimize irrigation for organic and integrated cultivation systems of special crops using digital tools and artificial intelligence. Digital and technological solutions for resource-efficient and sustainable water use in plant food production will be developed through cooperative inter- and transdisciplinary research.

Your creative freedom – our joint progress.

- Digital and technical advancement of the decision support system ANNI (artificial neural network for irrigation). For this purpose:
- Machine learning-supported modeling of site-specific irrigation demand for outdoor crops based on data collected through proxy and remote sensors, as well as historical and simulated future data of soil, plant, and atmosphere
- Co-development and use of networked sensors and irrigation technologies for site-specific assessment of water demand and application (variable rate irrigation, VRI)
- Planning and conducting field experiments to a. parameterize and evaluate the DSS and b. assess the VRI technology on trial and industry sites
- Collaboration with research and industry project partners
- Publication activities in the form of presentations, publications, and reporting for a scientific and practice-oriented audience
- Supervision of doctoral candidates as well as master and bachelor theses

Your expertise - our requirements.

- A completed academic university degree (M.Sc.) with a PhD in horticultural sciences, agricultural sciences, geosciences, or another natural science discipline
- In-depth knowledge in modeling and biometric statistics, particularly using machine learning, ideally with the programming language R
- Familiarity with artificial neural networks is desirable
- Good knowledge of digitization and automation in agriculture, especially the use of sensors, automated data processing, and implementation of automation systems such as irrigation systems
- Successful publication activity in international and national peer-reviewed journals
- Experience in project management
- Experience in plant cultivation experiments is desirable
- Practical experience in horticulture, agriculture, or related fields is desirable

- Excellent communication and teamwork skills
- Ability to work independently and cooperatively and good presentation skills
- Very good English language skills
- Driver's license class B

Our offer - your opportunity.

- *Security* - Employment in the public sector with remuneration (depending on professional experience and qualifications) up to pay group **13 TV-H** and a company pension scheme
- *Meaningfulness* - responsible task in a practical project to secure the future of viticulture in and outside Germany in an interdisciplinary, motivated team
- *Prospects* - personal, needs-orientated support through extensive training and further education opportunities; possibility of a doctorate
- *Flexibility* - individual working time models (work-life balance), basic possibility of mobile working after induction and 30 days' holiday
- *Mobility* - LandesTicket Hessen 2025-2026 for free use of local and regional public transport within Hesse
- *Feel-good factor* - a sense of community as "Geisenheimer:innen" through familiar surroundings on the green campus with listed parks and buildings, paired with Rheingau hospitality

Does that sound exciting to you? Then send your application (as a PDF file), quoting the **reference number 38/2025**, to bewerbung@hs-gm.de by **05.08.2025**. We look forward to hearing from you!

If you have any initial questions (also regarding the processing of your application data, see [data protection information/application data](#)), please contact the following persons:

<u>Job application management</u> Aline Wenzl/ Verena Klein Tel.: +49 (0)6722 502-2291/2292 E-Mail: bewerbung@hs-gm.de Geisenheim University Human Resources Von-Lade-Straße 1, 65366 Geisenheim	<u>Institute for Vegetable Crops</u> Prof. Dr. Jana Zinkernagel Tel.: +49 (0) 6722 502-511 E-Mail: Jana.Zinkernagel@hs-gm.de
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For us, your profile and your strengths count. That is why we welcome every person regardless of characteristics such as gender, age and origin or disability.

People with disabilities (as defined in § 2 Para. 2 and 3 SGB IX) are given preferential consideration if they are equally qualified.

Geisenheim University is a university that has been audited as "family-friendly" and is committed to diversity, equal rights for all genders and the compatibility of work and family. Therefore, we expressly encourage women with appropriate qualifications to apply.