UNIVERSITY OF HOHENHEIM
1818

Institute of Plant Breeding, Seed Science and Population Genetics (350)

The **Research Group Crop Biodiversity and Breeding Informatics** invites applications for a

PhD Position / Research associate (TV-L E13 65%)

in **soybean quantitative genetics and breeding** under the supervision of Prof. Karl Schmid. The position is funded by the collaborative project „SENSOJA – Sensor-assisted breeding of high-yielding soybean varieties with increased tolerance to abiotic stresses". Project partners are the State Breeding Institute at the University of Hohenheim, the federal Julius-Kühn Institute (JKI) and a private breeding company.

The successful candidate will use genome-wide association studies and genomic prediction to identify useful genetic variation in genetic resources and breeding lines for developing stress-tolerant soybean varieties. This project builds upon earlier work, see https://doi.org/10.1111/pce.13761 and https://doi.org/10.1101/2022.02.18.480989.

We look for highly motivated applicants with the following qualifications and characteristics:

- Master degree in biology (genetics), crop science, biostatistics, bioinformatics or related fields
- A strong interest in quantitative genetics in the context of plant breeding
- Basic skills in data science: R/Python scripting, data management and quantitative analysis
- Strong willingness to learn and use new computational and analysis methods
- First hand experience in wet lab genomics (genotyping or sequencing) is advantageous
- Independent working style and good self-organization
- Very good communication and team working skills

We offer:

- Working in an international research group, which is member of the Competence Unit for Plant Breeding and the Computational Science Hub
- Opportunities for additional scientific training and presentation of your research
- Improving your professional skills within our graduate program of the agricultural faculty
- The opportunity to build a professional network in the public and private plant breeding sector
- Working on a beautiful university campus in a major city with a rich cultural life and a diverse natural environment

The position is available immediately and funded for 36 months. Please submit your application as a single PDF file that includes a CV, letter of motivation, transcript of records and names of references by e-mail with the subject line „SENSOJA" to Anja Oehlmann (anja.oehlmann@uni-hohenheim.de). Review of applications will begin on **31 March 2023** and will continue until the position is filled.

For further information and informal inquiries, please visit our website (http://evoplant.uni-hohenheim.de) or contact Karl Schmid (karl.schmid@uni-hohenheim.de).