The **University of Bonn** is an international research university offering a broad range of subjects. With a 200-year history, some 31,500 students, more than 6,000 employees and an outstanding reputation in Germany and abroad, the University of Bonn is one of the leading universities in Germany and has been awarded the status of a University of Excellence.

The **Crop Science group at INRES (The Institute of Crop Science and Resource Conservation)**, within the Faculty of Agricultural is inviting applications for a

Scientific researcher (PhD position) (%65)

We offer a **65% (26h/per week)** PhD position limited to **48 month**. The position will **be filled as soon as possible** to work on DRIVE project.

DRIVE is a collaborative research project funded by the BMBF, aimed at developing locally adapted, climate resilient varieties for the future using data-driven approaches. The project involves extensive high throughput phenotyping and field experiments to develop new modeling routines for capturing compound heat and drought stress. Additionally, these routines will be integrated into large-scale climate change impact assessments.

Your Task:
- Analyze crop phenotyping data and image analysis from high-throughput experiments, including extensive breeding wheat variety panels, to develop modeling modules
- Using data science and AI methods to extract mechanisms and processes
- Developing and implementing algorithms to detect heat and drought responses among a wide range of growth and development related traits
- Implementing models with big data to assess climate change impact using crop models under various scenarios

Your Profile*:*
- Master of science in crop science or agronomy, environmental scenarios or relevant fields
- Proficient knowledge in plant growth dynamics and statistical analysis
- Experience on **crop modelling and stress physiology**
- **Robust experience with R or Python**
- Proven experience in handling big data
- Fluency in written and spoken English, with excellent scientific writing skills
- Ability to work collaboratively within a team, contributing positively to a dynamic and supportive team environment

We offer:
- Excellent and well-funded working environment that supports innovation and high-quality research,
- Opportunities to further develop and enhance your research profile,
- Support for applications for additional third-party funding for your own research in the fields of biodiversity monitoring and agro-ecological modelling,
- Pathways for further academic advancement
- Collaborative, international work environment that fosters cross-disciplinary exchange,
- Company pension scheme (VBL),
- Extensive university sports programs,
- Centrally located workplace in Bonn with excellent public transport connections
- Remuneration according to pay group 13 TV-L**.**

The University Bonn is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in the field. The university has committed itself to being a family-friendly institution and supports their employees in balancing work and family life. The mission of the University is to employ a greater number of severely disabled persons. Applications from severely disabled persons with equivalent qualifications will be given preference.

Please send your application in English including **(1) your CV and publication list, (2) letter of motivation highlighting your interest in this position, (3) list of contacts for 3 references and (4) certificates (incl. Master/Diploma),** in electronic form as one single pdf file, with **3.2-24-87**. Applications should be sent **until 02.02.2025** by email to bkamali@uni-bonn.de, If you have questions about the position, please contact Dr. Bahareh Kamali, bkamali@uni-bonn.de .

We are looking forward to your application! With submission of your application, you accept the processing of your applicant data in terms of the data-protection law. Further information on the legal basis and data usage is provided in the https://www.unibonn.de/en/data-protection-policy?set_language=en.