

The Crop Science Group within the Institute of Crop Science and Research Conservation (INRES) at the **University of Bonn** is offering a two-year

**Post-Doc position (E13 TV-L / 100%)**

within the BMBF-funded research project “Digital Agricultural Knowledge and Information System (DAKIS)” subject to final funding approval.

DAKIS contributes to the vision for spatially and functionally diversified agricultural systems. These systems will be small-scale, and landscape-specific, as well as tailored to the demands of society by effectively integrating requirements for agricultural goods and services into farm planning. The approaches and tools developed by the DAKIS project will be highly novel and innovative, making use of state-of-the-art digital information and agricultural management technology. Production and marketing of ecosystem services and biodiversity will be integrated through digitization of modern planning processes.

The Crop Science group at the University of Bonn contributes to DAKIS by supporting the set-up of the sensor infrastructure at the test sites located in the federal states of Brandenburg and Bavaria, the ground- and aircraft-based monitoring and by spatially and temporally explicit modeling of cropping systems under explicit consideration of ecosystems services and biodiversity. Major tasks for the Post-Doc are to support the set-up of the monitoring structure at the test sites, the planning of the modelling and monitoring of ecosystem services and biodiversity indicators and to establish a workflow for the assimilation of sensor data in cropping system models for real-time simulations. The position includes the application and further development of the existing modelling platform ([www.simplace.net](http://www.simplace.net)) and frequent traveling (Germany) to collect experimental data. Close cooperation with project partners is anticipated.

We are looking for a highly motivated person to work in an interdisciplinary team. The successful candidate has a PhD degree in crop science, geo-ecology, remote sensing, geodesy or related sciences with a background in crop production, biodiversity, remote sensing and/or expertise in using simulation models. Experiences and strong interest in developing process-based, numerical models at the soil-plant interface and in object-oriented computer programming is an advantage. The position is a full position and paid according to the German regulations for scientists at the Post Doc level (TVL-13). Applicants with more than three years of experience in scientific research may be eligible for additional upgrades. Starting date of the position depends on the final project approval (expected in March 2019).

Applications of handicapped persons will be favored when all other qualifications are equal. Female candidates are encouraged to submit their applications. Applications (CV including diploma certificates/transcripts, list of publications, statement of research interests and achievements, addresses of two references) should be sent to

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For further information concerning our research group you can visit our website at [http://www.lap.uni-bonn.de/home?set\\_language=en](http://www.lap.uni-bonn.de/home?set_language=en)