

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

PhD student position (E13 TV-L / 50%)

within the BMBF-funded research project *Digital Agricultural Knowledge and Information System* (DAKIS) on

Monitoring and process-based modeling of grassland dynamics

DAKIS contributes to the vision for spatially and functionally diversified agricultural systems. 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 grassland systems under explicit consideration of ecosystem services and biodiversity.

Major tasks for the PhD student are to collect and use ground- and aircraft-based data for monitoring and modeling grassland dynamics at the test sites. A major aim of the PhD thesis is the integration of remotely sensed data in process-based modeling approaches under explicit consideration of ecosystem services and biodiversity indicators. The position includes the application and further development of the existing modelling platform (www.simplace.net) and frequent traveling within 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 should hold a Master degree in crop science, botany, plant ecology, geobotany, remote sensing, geodesy or related sciences with a background in grass/forage sciences, biodiversity, remote sensing and/or expertise in using simulation models. Practical experience in mapping vegetation communities and in grassland management is desirable. A strong interest in developing process-based, numerical models at the soil-plant interface are an advantage. Earliest starting date of the position will be in January 2021.

Applications of handicapped persons will be favored when all other qualifications are equal. Female candidates are encouraged to submit their applications. Please send your applications (CV including diploma certificates/transcripts, list of publications, statement of research interests and achievements, addresses of two references) until October 15, 2020 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