

The Leibniz Centre for Agricultural Landscape Research (ZALF) in Müncheberg has opened a position for a

Post-doc Researcher [14/2016]

for process-based crop rotation and greenhouse gas emission modelling in the context of climate change and food security, beginning 1 July 2016.

The candidate is expected to improve and apply cropping system models for simulations of crop rotations and greenhouse gas emissions in impact assessment studies of climate change and food security. Emphasis is on the representation of mainly temperate cropping systems, including carry-over effects of water and nutrients and related greenhouse gas emissions, for defined European regions and the integrated assessment of their adaptation and mitigation potential to climate change. The research work is embedded in larger international research projects and networks and contributes to their progress at various levels.

The task area includes the following foci:

- Analysis of European cropping systems for rotation and other management patterns
- Data collection and model set-up for cropping system representation
- Simulation of crop yields, changes in soil characteristics and greenhouse gas emissions for selected regions and across Europe, using a grid-based ensemble of crop models on a multi-core computer cluster
- Analysis of scaling effects of 1D simulations of rotations and greenhouse gas emissions to larger scales
- Synthesis of modelling results in scientific publications and oral presentations at project and network meetings and conferences
- Support the research group through PhD student supervision and fund raising

Applicants should (I) hold a PhD in Agronomy, Geo-ecology, Environmental Science or related area, with focus on simulation modelling and crop production/plant physiology, (II) prove strong interest in spatial statistics (III), be fluent in English (oral and written) and (IV) show a significant record of peer-reviewed scientific publications.

The applicant will be provided a suitable environment to advance in scientific career according to the ZALF qualification support standards.

For further information please contact Dr Claas Nendel, Tel. +49-(0)33432-82-355, e-mail: nendel@zalf.de or Prof Frank Ewert, e-mail: wiss.direktor@zalf.de.

Salary is geared to level 13 of state-level tariff (TV-L), with a working time of 100 % of the regular weekly working time. The position is limited to 3 years. Women are particularly encouraged to apply. Applications from severely disabled candidates with equal skills will be given preferential treatment.

Please submit the usual application documents until 15 May 2016, referring to the code **14/2016**, to: (bewerbungen@zalf.de), Head Personnel, Mr Ramon Bolick, Leibniz-Centre for Agricultural Landscape Research (ZALF) e.V..