UNIVERSITÄT HOHENHEIM

Universität Hohenheim (340a) | 70593 Stuttgart

Fakultät Agrarwissenschaften

Institut für Kulturpflanzenwissenschaften
Fachgebiet Allgemeiner Pflanzenbau

Prof. Dr. Simone Graeff-Hönninger

Bearbeitet von Dr. Johanna Link-Dolezal
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01 February 2016

Job posting - Postdoc

Pending on the final approval, the University Hohenheim, Faculty of Agricultural Sciences, Institute of Crop Science, Department of Agronomy, offers a position as

Postdoc (TV-L E13, 100 %)

entitled „**Crop growth modelling to optimize disease detection and decision support of appropriate application of pesticides**".
The job position is open from 01 April 2016 and timely limited until 31 March 2019. The regular weekly working time is 39.5 hours (100 %). The salary is based on TV-L E13 (the German public service salary scale). The place of employment is Stuttgart-Hohenheim.

The position is part of a joint research project („Resource efficient plant protection based on a data driven multi-scale approach for the process chain: Diseases detection - decision support - demand specific fungicide application") with partners from industries and is funded by the German Federal Agency for Agriculture and Food (BLE).

The main goal of this joint research project is the development of a disease detection and decision support tool for wheat and sugar beet crops. Multi-scale data will be acquired and analyzed to develop and improve decision support systems for appropriate crop protection.

Profile:

- PhD in Agriculture or related sciences (e.g. Plant Science, Horticulture, Geoinformatics, Remote Sensing, Biosystems Engineering, Geo-Ecology),
- programming skills (Python, Fortran, Visual Basic, R, …)
- experience in application and programming of process-oriented crop growth models (e.g. DSSAT, APSIM), as well as in development of model algorithms
- experience in design, implementation and analysis of field trials,
- knowledge in using Geographic Information Systems (QGIS, ArcGIS, …)
- knowledge in analysis of spatial and multispectral data (R, hyperspec, ENVI, …),

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Bus
65, 70, 73, 74, 75, 76, 79

- Interest in agronomic issues and readiness for field work,
- enthusiasm for scientific working,
- very good skills in analytics, organization and communication,
- fluent in English language,
- very good skills in MS Office/Linux,
- readiness for teamwork, business trips and public presentations,
- driver's license (car) would be an asset.

Responsibilities:

- design, implementation and analysis of field trials in wheat and sugar beet,
- data collection (by observation and use of sensor techniques) to parametrize process-oriented crop growth models (growth and development, impact of environment, management, ...),
- programming a crop growth model for requirements within the project,
- implementation of information into cropping methods,
- analysis, documentation and transfer of knowledge in terms of reports, presentation, publication in international relevant journals, contribution on seminars and conferences.

Female candidates are encouraged to submit their applications. Applications of handicapped persons will be favored when all other qualifications are equal.

Applications (CV, PhD certificate, statement of research interests and achievements) should be sent to:

University of Hohenheim,
Institute of Crop Science (340a),
Prof. S. Graeff-Hoenninger, Johanna Link-Dolezal
Fruwirthstr. 23,
70599 Stuttgart
Germany

or by Email to: simone.graeff@uni-hohenheim.de and johanna.link@uni-hohenheim.de
until **25 February 2016** latest. Job interviews can be done via skype.

For further information please contact Prof. Simone Graeff-Hoenninger (+49 711/459 22376) or Dr. Johanna Link-Dolezal (+49 711/459 22373).