

# FFoQSI – Austrian Competence Centre for Feed and Food Quality, Safety & Innovation



FFoQSI is the Austrian Competence Centre for research and innovation in the agri-food sector and bundles a wide international partner consortium. For our research sites in Vienna and Großenzersdorf (Institute for Agricultural Engineering, BOKU - University of Natural Resources, Vienna) and cooperation with Steyr tractors we are offering a

## PhD/doctoral student position (f/m)

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The determination of the nutrition status of plants is based on the measurement of spectral properties of plant leaves. However, under field conditions these methods are subject to errors due to environmental influences and plant structure. Since in most cases only differences in the crop supply status can be detected, but no absolute values are measured, calibration before each measurement is necessary. In this PhD project, a spectral measurement method is to be developed which takes additional image information into account and thus provides more precise, reproducible values allowing for the comparison of these values for different sites and time points.

### Your responsibilities

- > Setup of a measurement system for the spectral analysis of plant leaves with consideration of additional image information
- > Data analysis using statistical methods and evaluation of the obtained results
- > Presentation of the results at conferences (poster, talk)
- > Publication of scientific papers
- > Supervision of Bachelor's or Master's students in the context of the project
- > Assistance with research proposals

### Your most important abilities and qualifications are

- > Completed diploma/master's degree in an agricultural or technical field of study, e.g. agricultural sciences, physics, electrical engineering, mechanical engineering, computer science or comparable education degree
- > Knowledge in the fields of optics, image processing, image analysis and data processing
- > Team spirit and interest in interdisciplinary work – crop science/physics/metrology
- > Willingness to get familiar with new topics
- > Analytical thinking and a methodical approach
- > Independent planning, conception and execution of experiments
- > Very good knowledge of English

### We are offering

- > Extent of employment: 30 hours/week

FFoQSI GmbH, Technopark 1C, A-3430 Tulln

Geschäftsführung Dr. Jürgen Marchart

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- > Gross monthly salary: 2,148.40 EUR (14 x per year)
- > Work in a small team in a university environment
- > Close cooperation with the partner companies
- > Possibility for exchange and networking within the FFoQSI partner consortium
- > Numerous education and training opportunities

**Planned start of work:** July 2019

Contact for questions regarding content: Dr. Norbert Barta, Tel: +43 (1) 47654 - 93145

Please send your application with the usual documents by **9<sup>th</sup> of July 2019 at the latest** with the **subject K10-P03-W05** to [jobs@ffoqsi.at](mailto:jobs@ffoqsi.at).