

The Department of Crop Sciences is currently seeking a

## **Postdoctoral or Postgraduate Research Associate (project employment)**

Reference code: 202

Extent of employment: 40 hours per week  
Duration of employment: November 2021, limited to 31<sup>st</sup> of October 2023

Workplace: Tulln / Vienna / Groß-Enzersdorf

Gross monthly salary and pay grade in terms of collective agreement for university staff (payable 14 times per year): with doctorate: B1 lit. b, € 3.945,90 / without doctorate: B1, € 2.971,50

### **Responsibilities**

- Participation in the infrastructure and research project BOKU Phenomics at the University of Natural Resources and Life Sciences with a focus on the BOKU location in Tulln (Lower Austria), as well as in Vienna and Groß-Enzersdorf
- Participation in the optimization of the use of imaging and other (e.g. remote sensing) methods, in particular by means of a UAV for high-throughput and high-resolution recordings of agricultural experiments
- Imaging of field experiments using an UAV with camera systems, especially high-resolution RGB and multispectral imaging at different locations
- Development of the entire evaluation pipeline of digital phenotyping data (e.g. RGB, multispectral) from extensive field experiments with several 100 or 1000 field plots for the derivation and validation of digital crop traits, such as the degree of infestation with diseases, soil cover, biomass, water balance, stress traits, etc
- Development and optimization of user-friendly evaluation tools for scientific research
- Participation in the publication of the results in high-ranking scientific journals and at scientific events

### **Required skills and qualifications**

- Doctoral degree/PhD in Computer Science, Mathematics or equivalent
- Diploma degree in Computer Science, Mathematics or other equivalent university degree
- Interest/experience in the digital evaluation of measurement data, including high-resolution RGB images, multispectral data, etc.
- Excellent computer- and programming skills
- Interest in agriculture, biology, genetics, crop physiology
- Communication skills, team spirit, flexibility, scientific curiosity
- Driving license B, drone pilot license (if not available then it must be obtained within three months)

### **Desirable skills and qualifications**

- Experience with biological, medical or agricultural experiments / data
- Technological affinity and experience in working with drones, cameras or remote sensing
- Experience with third party funding/entrepreneurial interest
- Experience with scientific networks

Applications can be submitted until: 21<sup>st</sup> of October 2021

University of Natural Resources and Life Sciences Vienna seeks to increase the number of its female faculty and staff members. Therefore qualified women are strongly encouraged to apply. In case of equal qualification, female candidates will be given preference unless reasons specific to an individual male candidate tilt the balance in his favour.

People with disabilities and appropriate qualifications are specifically encouraged to apply.

Please send your job application incl.

- motivation letter
- CV

to Personnel department, University of Natural Resources and Life Sciences, Peter-Jordan-Straße 70, 1190 Vienna; E-Mail: [kerstin.buchmueller@boku.ac.at](mailto:kerstin.buchmueller@boku.ac.at). (**Reference code: 202**)

For scientific questions please contact Dr. Pablo Rischbeck ([pablo.rischbeck@boku.ac.at](mailto:pablo.rischbeck@boku.ac.at))

We regret that we cannot reimburse applicants travel and lodging expenses incurred as part of the selection and hiring process.

**[www.boku.ac.at](http://www.boku.ac.at)**