



The chair of Soil Physics at the University of Bayreuth invites applications for a

PhD Position (E13, 65% for 3 years)

within the DFG funded priority program (PP) “rhizosphere spatiotemporal organization – a key to rhizosphere function (<https://www.ufz.de/spp-rhizosphere/>)”. We are seeking a motivated PhD student to investigate the impact of the rhizosphere processes (root hairs and mucilage) on soil-plant water relations and drought tolerance in maize. The project is part of a nationwide, interdisciplinary community on rhizosphere research. The anticipated start is September, 2018, working time 65%, for 3 years. The working place is the University of Bayreuth. The project will be conducted in close collaboration with the Forschungszentrum Jülich and with the Helmholtz-Centre for Environmental Research – UFZ Leipzig/Halle.

Profile:

- Master degree in agriculture, biology, soil science, engineering, physics or geoscience.
- Experience in soil physics, plant physiology, measurements and modelling of water movement through the soil- plant-atmosphere continuum would be an advantage
- Flexibility to attend regular project-internal meetings in Germany, to participate in international scientific conferences and to conduct some of the planned analyses at cooperation partners in Germany.
- Ability to work independently in the lab and in the field and motivation to work in an interdisciplinary team.
- Good written and oral communication skills in English.
- Experience with image techniques, image processing and modelling is welcome.

Please send your application - CV, Diploma and transcripts of records (BSc and MSc) and motivation statement (max. two pages) until 31.08.2018. These files should be combined into a single pdf-file and **sent by email** to Dr. Mutez Ahmed (mutez.ahmed@uni-bayreuth.de) and Prof. Dr. Andrea Carminati (andrea.carminati@uni-bayreuth.de).

Applications from handicapped persons will be favoured when all other qualifications are equal. The University of Bayreuth is an equal opportunity employer and we therefore especially encourage women to apply.

For more information please contact Dr. Mutez Ahmed or Prof. Dr. Andrea Carminati.



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within the DFG funded priority program (PP) “rhizosphere spatiotemporal organization – a key to rhizosphere function (<https://www.ufz.de/spp-rhizosphere/>)”. We are seeking a motivated PhD student to investigate the impact of root mucilage and extracellular polymeric substances (EPS) on the biophysical properties of soils. The project is part of a nationwide, interdisciplinary community on rhizosphere research. The anticipated start is September, 2018, working time 65%, for 3 years. The working place is the University of Bayreuth. The project will be conducted in close collaborator with the Helmholtz-Centre for Environmental Research – UFZ Leipzig/Halle.

Profile:

- Master degree in physics, physical chemistry, polymer science, soil science, engineering or geoscience.
- Experience in soil physics, image processing, rheology and polymer science would be an advantage.
- Flexibility to attend regular project-internal meetings in Germany, to participate in international scientific conferences and to conduct some of the planned analyses at cooperation partners in Germany.
- Ability to work independently in the lab and motivation to work in an interdisciplinary team.
- Good written and oral communication skills in English.
- Experience with imaging methods and numerical modelling is welcome.

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