

The Chair of Crop Functional Genomics at the University of Bonn invites applications for a

Ph.D. position at the intersection of Plant Development and Plant Nutrition

Three years, TV-L E13 (65%)

The primary goal of the DFG-funded Ph.D. project is to study underlying molecular causes of boron deficiency-induced defects in the primary root of maize to elucidate cellular functions of this rudimentary understood nutrient. The study of boron nutrition is an agronomically important topic, since deficiencies of this essential micronutrient, which occur in many parts of the world, lead to drastic developmental defects and yield reductions in crops.

The interdisciplinary project combines chemical genetics, plant nutrition and development, phytohormone and cell biology, advanced microscopy, bioinformatics, and proteomics. The project profits from an extensive national and international collaborative network.

Applicants should hold a M.Sc. or Diploma in Biology, Agriculture or a related field. Advanced knowledge in plant nutrient transport, root development, cell wall and phytohormone biology are required. Specific skills in plant root phenotyping, histology, confocal microscopy and familiarity with molecular biology techniques are advantageous. The ideal candidate is highly organized, detail-oriented, and hard-working with a strong interest in interdisciplinary research. We are looking for a candidate that can work independently in a team and has the willingness to contribute to open and transparent science.

The student will work in an international work environment (English is the working language) and will participate in weekly group meetings and journal clubs. Publication of the work at conferences and in scientific journals is encouraged and will be supported.

Applications should contain a letter of your motivation (including your research interests), your detailed CV (with exam grades and all relevant practical experience) and at least two letters of reference. Please send your application in a single PDF by

January 8, 2021

to Dr. Michaela Matthes: mmatthes@uni-bonn.de

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university and has a dual career service. It aims to increase the proportion of women in areas where women are underrepresented and to particularly facilitate their careers. Therefore, the University of Bonn strongly encourages applications from qualified women. Applications will be handled in accordance with the State Gender Equality Act ("Landesgleichstellungsgesetz"). Applications from qualified individuals with a certified severe disability and from those of equal status are particularly welcome.

For further information, see cfg.uni-bonn.de or contact Dr. Matthes directly.