

PostDoc position Crop Physiology, Technical University of Munich in Freising, Germany

From 01. April 2020, Dr. Patrick Bienert will hold a permanent professorship for 'Crop Physiology' at the Technical University of Munich in Freising, Germany.

At the moment, he is assembling his future team and has one more PostDoc position available, which is not filled yet.

The main objective of the 'Crop Physiology' group is to elucidate metalloid-efficiency traits, biochemical functions, transport pathways and regulatory networks of metalloids in plants, as well as their transcriptional, developmental and signalling responses to metalloid deficiency and toxicity. Of central interest are the essential and beneficial nutrients boron (B) and silicon (Si), respectively, and the toxic and carcinogenic element arsenic (As). To this aim, we synergistically bridge classic plant nutritional/physiological research with modern molecular biology and exploit the genetic diversity of very interesting identified genotypes both in *Arabidopsis thaliana* and *Brassica napus*. With this respect, we are particularly interested in developmental and stress responses of roots and flowers. Of course, the group is further dealing with aquaporins and their role in water stress conditions and as signalling gates.

Dr. Patrick Bienert is seeking a candidate who has a degree in biology, agricultural biology or any related field. The candidate should have a strong background in transport biology, plant nutrition and plant physiology as well as an advanced experience in molecular biology and understanding of genetic principles. It would be great if the candidate is further familiar with forward and reverse genetic approaches and molecular methods.

Potential candidates can contact Dr. Patrick Bienert directly via e-mail (bienert@ipk-gatersleben.de) or (patrick.bienert@tum.de) to indicate their interest for the position (best with a CV and short motivation letter), or if they have further questions regarding the position or the projects.

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