

## PhD-Position

### in Plant Cell Biology



## Role of potassium transport in rice in securing high crop yields

The Department of Molecular Plant Physiology and Biophysics (University of Würzburg) is searching for a highly motivated PhD-student, to work on a joint project with the Biochimie et Physiologie Moléculaire des Plantes (BPMP) in Montpellier (France), to study potassium transport in rice plants. The project is funded by the German Research Foundation (DFG) and the Agence nationale de la recherche (ANR).

### Project description

Rice plants are often grown on intensively used fields, that need regular supply of nutrients, such as potassium ( $K^+$ ), through application of fertilizers. The demand for fertilizer needs to be reduced in the near future, by breeding rice lines with improved  $K^+$  transport abilities, while securing high crop yields. To achieve this long-term goal, this project will study the molecular mechanisms by which rice cells transport  $K^+$ . The specific role of  $K^+$  channels in this transport process will be uncovered, using a combination of microscopical, molecular biological, and electrophysiological techniques.

### Your profile

We are searching for a highly motivated candidate with a Master in Biology, or related subjects, who has affinity to Plant Molecular Biology and Biophysics and would like to collaborate in an international research consortium.

### Contract/ payment

The appointment can start on 1 January 2021 and will be on a three-year contract, with a pay scale according to "Tarifvertrag für den öffentlichen Dienst der Länder (TV-L)" at a 65% level (Collective Agreement for the Public Service of German Federal States, 65%).

Severely handicapped applicants will be given preferential consideration when equally qualified.

### Application

Please send your application, together with a curriculum vitae and transcripts of academic qualifications, by e-mail, with the subject line "Application PhD position RiceKtrans" to PD Dr. Rob Roelfsema; [roelfsema@botanik.uni-wuerzburg.de](mailto:roelfsema@botanik.uni-wuerzburg.de).