



LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

**A position for a postdoctoral biochemist** (income level TVL E13, 100%)

is available in the **team of Prof. Dr. Martin Parniske in Munich, Germany**, to study

the **biochemistry of plant transcription factors**.

The successful applicant has a **strong background in protein biochemistry** of transcription factors and their interactions including analysis of protein-protein and protein-DNA interaction *in vitro* using technologies such as protein purification, gel filtration/size exclusion chromatography (FPLC, SEC) and dynamic light scattering (DLS), surface plasmon resonance (SPR), micro scale thermophoresis (MST), isothermal titration calorimetry (ITC) or similar. Experience with protein structure and larger protein complex structure analysis would be an advantage.

The postdoctoral scientist will contribute to the larger ongoing project “Signal transduction in nitrogen-fixing root nodule symbiosis” to identify the genetic switches involved in the evolution of this symbiosis.

Crop production worldwide is sustained through nitrogen fertilizer produced via the energy-demanding Haber-Bosch process. One group of closely related plants evolved to become independent of nitrogen from the soil by engaging in symbiosis with bacteria that convert atmospheric nitrogen to plant-usable ammonium. The project builds on the underlying idea that the nitrogen-fixing root nodule symbiosis evolved by co-opting preexisting signal transduction components leading to transcriptional responses. By focusing on transcription factors, the postdoctoral scientist will investigate and compare the connections between different signaling pathways involved in plant root symbioses.

The Parniske laboratory is situated in the Biocenter of the University of Munich (LMU), Germany. The Biocenter is equipped with state of the art instrumentation to carry out molecular, biochemical and cell biological research.

For further information about the Parniske lab and the scientific background of this project please visit: [www.genetik.biologie.uni-muenchen.de](http://www.genetik.biologie.uni-muenchen.de)

To apply, please send your application including your curriculum vitae, evidence for your expertise in protein biochemistry, names of two referees and a motivation letter via email to Martin Parniske ([parniske@lmu.de](mailto:parniske@lmu.de)). The motivation letter should explain your interest in this specific project. Please include a referral to this advert in your cover letter.