



Leibniz Institute of Plant Biochemistry
Halle (Saale), Germany



The Leibniz Institute of Plant Biochemistry (IPB) invites applications by motivated young researchers with an interest in **molecular aspects of temperature signaling** to fill the position of a

Ph.D. student seeking a Ph.D. in Plant Biology, and a **Postdoctoral researcher.**

We are looking for creative, flexible, and enthusiastic new team members with a Masters/Ph.D. degree in Biology, Biochemistry, or Agriculture (or equivalent) to join the **Research Group** headed by **M. Quint** in the Department of Molecular Signal Processing at the IPB. The Ph.D. student and the postdoctoral researcher will investigate signaling mechanisms plants utilize to adapt to abiotic stress. The Quint Lab is generally interested in signaling pathways – especially those triggered by phytohormones - that shape plant development. We follow a variety of approaches including molecular biology, molecular genetics, population and quantitative genetics, genomics/transcriptomics, and evolutionary biology. For further information, see <http://quintlab.openwetware.org> and/or contact mquint@ipb-halle.de

We offer an exciting project in a highly significant area of plant biology. The successful applicants will use Next Generation Sequencing to identify mutations in the model organism *Arabidopsis thaliana* that cause inability to respond to abiotic stress stimuli and characterize the function of the underlying genes and proteins on a physiological, genetic, and cell biological level. We will be exploiting the high-level infrastructure at the IPB and on the surrounding university campus. The experimental work will be carried out in collaboration with internal on-site and external collaboration partners with different key expertises.

The IPB constitutes a vibrant and collaborative environment for research. Equipped with state-of-the-art technology and excellent core facilities, the institute provides outstanding research opportunities. Submission deadline for applications is

September 23, 2012.

Later applications may be considered if the position is not yet filled. **Candidates about to earn their degree are welcome to apply.** The position is available starting January 1, 2013. The salary and employee's benefits will be according to the 'Tarifvertrag der Länder (TV-L, 50% E13)'.

Are you interested in joining our research team? We are looking forward to receiving your application documents!

Please send your application (reference number **15/2012 (Ph.D. Student)** or **17/2012 (Postdoc)**; including cover letter addressing your research interests, CV, short summaries of Bachelor and Master/Diploma thesis, transcripts, and names/contacts of two references) by email as a single pdf file to: bewerbungen@ipb-halle.de

Additional information about the local research environment:

We are a young and dynamic lab broadly interested in molecular and evolutionary aspects of plant development. Our primary research system is the model plant *Arabidopsis thaliana*. For further information on our research interests, please see our lab website (<http://quintlab.openwetware.org>) and recent publications (Quint et al., 2012, *Nature*; Delker and Quint, 2011, *Trends Plant Sci.*; Delker et al., 2010, *Plant Cell*).

The IPB is a leading institution in plant science and, together with the surrounding Weinberg Campus, provides a stimulating scientific atmosphere and collaborative environment with excellent research conditions and state-of-the-art facilities. Our lab is part of the Department of Molecular Signal Processing, which focuses on signal transduction cascades of various pathways in *Arabidopsis thaliana*. We offer a top-level research environment, generous research funding, high profile seminar series', and a highly communicative atmosphere between the involved departments and labs of the IPB and the Martin Luther University Halle-Wittenberg (MLU). The IPB offers four platforms (proteomics, bioinformatics, metabolomics, chemical screening) and a core imaging facility. Most research can be conducted in-house and the IPB-MLU campus hosts one of the largest facilities dedicated to both plant and protein sciences in Germany.

Our lab is currently also associated with the Collaborative Research Center 648 (SFB 648, funded by the Deutsche Forschungsgemeinschaft) '*Molecular Mechanisms of Information Processing in Plants*', which includes 16 labs from the IPB, the MLU, and the Leibniz Institute of Plant Genetics and Crop Plant Research (IPK) in Gatersleben.

Within this dynamic research environment you will have ample opportunities to interact and collaborate with faculty, postdocs, PhD students specializing in a variety of topics, such as protein biochemistry, plant molecular and cell biology, genetics, biotechnology, and bioinformatics.

The project will be carried out with national and international collaborating partner labs at the Max Planck Institute for Plant Breeding Research (MPIPZ) at Cologne, Germany, and the University of Minnesota-Twin Cities, USA.

The Leibniz Association is the umbrella organisation for 87 institutions conducting research or providing scientific infrastructure. Altogether, ca. 16,000 people are employed at Leibniz Institutes, which have an annual budget of 1,3 billion Euros.

The city of Halle (Saale) with its 210,000 inhabitants is a historic, but at the same time very young and lively town in close proximity to Leipzig (30 km) and Berlin (140 km). Halle boasts successful scientific centers (Leibniz, Fraunhofer, Max Planck Institutes and Helmholtz Centers), the vibrant night-life of a University town, and an impressive cultural scene around the large Martin Luther University Halle-Wittenberg and the Burg Giebichenstein University of Art and Design.

We are looking forward to receiving your application package!