

## External job advertisement No. AIP-2025\_Humbeck

At the Agrochemical Institute Piesteritz e.V., an affiliated institute of the Martin Luther University, an initially three-year position is now available for a

### PhD position (m-w-d)

part-time (65%).

Depending on the fulfilment of personal requirements, remuneration is paid up to pay group E13 TV-L. The position is located at the Chair of Plant Physiology (Prof. Klaus Humbeck), Institute of Biology, Faculty of Natural Sciences I, Martin Luther University Halle-Wittenberg.

#### Work:

- Processing of the research project *NitroGen (N-sensitive genes)* in the project network MOLDÜNG. By identifying and characterising suitable molecular markers that correlate with the N nutritional status, the project aims to make a strategic contribution to the development of novel systems for the objective assessment of the need for N supply of crops. This is to form the basis for optimising N fertilisation with regard to time and N quantity. The project aims to identify possible candidate genes and analyze their function.
- Project-specific tasks: Establishment of a hydroponic system for N-sensitive cultivation of barley, analysis of N-sensitive expression of a set of already identified candidate genes, functional analysis of potential candidates using genome-edited barley lines.
- Project-specific methods: transcriptome analyses, transformation and genome editing of barley, *B. rapa* and *Ara-bidopsis*, phenotypic analyses, photosynthesis and gas exchange measurements.
- Preparation and presentation of research results at seminars and conferences.
- Preparation of research reports and publications.

The opportunity to obtain one's own scientific qualification in the form of a doctorate is given.

The project is part of a project network with the Institute Agricultural and Nutritional Sciences and associated with the Agri-EXPLORE Graduate School.

#### Preconditions:

- Degree in biology, biochemistry, plant sciences or similar field
- Strong interest in functional plant biology and mechanisms of nutrient efficiency
- Excellent knowledge of molecular and cell biology
- Practical experience with molecular biological, biochemical and plant physiological techniques
- Practical experience in project-specific methods is advantageous
- Excellent knowledge of the English language (oral and written)
- High intrinsic motivation and ability to work in a team

Applications from severely disabled persons will be given preference if they are equally suitable and qualified. Women are strongly encouraged to apply.

If you have any questions, please contact Prof. Dr. Klaus Humbeck, Tel.: 0345 55 26410, E-Mail: [klaus.humbeck@pflanzenphys.uni-halle.de](mailto:klaus.humbeck@pflanzenphys.uni-halle.de).

Please send your application by e-mail (one pdf document) stating the reg. number: AIP-2025\_Humbeck with the usual documents, including curriculum vitae, certificates and two references to Prof. Dr. Klaus Humbeck ([klaus.humbeck@pflanzenphys.uni-halle.de](mailto:klaus.humbeck@pflanzenphys.uni-halle.de)). The call for applications will remain open until a suitable candidate has been found.