

4 Open PhD projects in the framework of the International Research Training Group 2466 at Heinrich Heine University Düsseldorf, Germany

The iGRAD-Plant Graduate Program – *Network, exchange, and training program to understand plant resource allocation (NEXTplant)* (GRK2466 – German Research Foundation) is a joint effort of Heinrich Heine University, Research Center Jülich and the Graduate Program in Genetics at Michigan State University (USA). Researchers of these institutions are pursuing innovative strategies to address fundamental problems in plant biology.

We offer a comprehensive, interdisciplinary PhD training program in the fields of molecular plant sciences, plant genetics, synthetic biology, quantitative biology and computer sciences. Future PhD students will join courses in transferable and scientific skills, regular seminars, retreats, and will conduct a 6-9-month research stay at Michigan State University.

We are looking for talented, highly motivated applicants holding a B.Sc. or M.Sc. degree in biology, biochemistry, bioinformatics, physics or a related field and a strong background in molecular plant sciences, biochemistry, quantitative biology, synthetic biology or a related discipline. **Applicants holding an excellent bachelor degree are particularly encouraged to apply!**

Start & application deadline: The projects are available immediately and applications will be accepted until the vacancies have been filled.

Open Projects:

- Project A3: Predictive Genotype-Phenotype Mapping using Deep Learning

Supervising PI: Prof. Markus Kollmann – Mathematical Modelling of Biological Systems

- Project A4: Quantitative understanding of plant light and hormone signaling through synthetic reconstruction in orthogonal mammalian cell systems

Supervising PI: Prof. Matias Zurbriggen – Synthetic Biology

- Project B2.2: Computational modeling of CAM photosynthesis and its evolution

Supervising PI: Prof. Martin Lercher – Computational Cell Biology

- Project C2.2: Iron regulation modules in the context of Fe resource allocation, seed sink strength and evolution in *Arabidopsis thaliana*

Supervising PI: Prof. Petra Bauer – Botany

Detailed project descriptions: <http://www.igrad-plant.hhu.de/de/open-positions.html>

Information about requirements, finances, and necessary application documents:

<http://www.igrad-plant.hhu.de/application-finances.html>

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For further information, please visit our website: <http://www.igrad-plant.hhu.de>