

## Internship Opportunity – Practical Course: Molecular Plant Breeding

At the Chair of Plant Breeding at Technical University of Munich (TUM), we are offering an internship opportunity as part of the course “**Practical Course: Molecular Plant Breeding.**”

We would like to highlight that this is a **6-week internship**, during which participants will work on a **scientific project** and prepare a **final report**, which will be graded.

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### Available Internship Topic

#### Fine-mapping of a NPQ QTL on Chromosome 3 in Maize

- **Focus:** Identification and fine-mapping of a quantitative trait locus (QTL) related to non-photochemical quenching (NPQ)
  - **Methodology:**
    - Growth chamber experiments
    - Chlorophyll fluorescence measurements using a gas-exchange device
    - Sample harvesting
    - DNA extraction
    - Genotyping with molecular markers (KASP markers)
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### Additional Information

- Plants will be grown in advance; experimental work will begin with **measurements and sampling in the week of April 27**
  - The internship should therefore **start around this date**
  - Participants should have sufficient availability for **lab work on key experimental days**, although schedules can be arranged flexibly to accommodate lectures
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### Application

If you are interested in this topic, please apply by sending:

- Your **CV**
- Your **transcript of records**
- Your **availability during the week**

 Please send your application to:  
[studaffairs.plantbreeding@ls.tum.de](mailto:studaffairs.plantbreeding@ls.tum.de)