

## PhD Position in Quantitative Genetics

The chair of plant breeding at the Technical University of Munich / TUM School of Life Sciences Weihenstephan invites applications for a PhD position (TV-L E13, 75%) starting as soon as a suitable candidate is found.

Research in the plant breeding group is focused on the development of molecular and statistical tools for plant breeding as well as on genome analysis in crop plants.

### Research topics:

- Contribution to the collaborative project “MAZE” ([www.europeanmaize.net](http://www.europeanmaize.net)) on genomic and functional diversity of maize
- Genetic and genomic analysis of cold tolerance at early stages of maize development
- Genomic and phenotypic characterization of a unique library of doubled-haploid lines grown in multi-environment trials to determine the genetic architecture of quantitative traits
- Development of statistical methods for quantitative trait loci (QTL) estimation and genomic prediction in genetic resources
- Investigation of multiple trait genomic prediction with a focus on genotype x environment interactions

### The successful applicant is expected to have:

- Master’s degree in (bio-) statistics, plant breeding or related disciplines (above average grades)
- Advanced knowledge in statistical software, preferably with R
- Background in (quantitative) genetics is a strong plus
- Very good English (oral and written), German of advantage
- Ability to work in a team and to collaborate with other research groups

### We offer:

- An interdisciplinary working environment in a team of plant breeders, statisticians, molecular geneticists and bioinformaticians
- Active exchange and collaboration with partners from academia and industry in a field of constant technical and methodological development
- Advanced education in statistics, genetics and plant breeding in courses and summer schools
- Employment contract with the German public service salary TV-L E13 (75%) for three years

The Technical University of Munich is committed to increasing the proportion of women in research and education and thus explicitly invites qualified female scientists to apply for this position. Preference will be given to disabled candidates with essentially the same qualifications.

### Contact:

Applications with the usual supporting information (letter of motivation, CV, certificates, credentials, etc. in a single pdf file) should be submitted by Email to [jobs.z7x.wz@tum.de](mailto:jobs.z7x.wz@tum.de), **subject matter: “PhD Position Quantitative Genetics 17.3”**. Application will be open until the position is filled.

For more information please see:

<http://www.plantbreeding.wzw.tum.de/>  
<http://www.europeanmaize.net/>

For questions related to the position and further background information please contact Dr. Anne-Sophie Bouchet, Plant Breeding, TUM, [anne-sophie.bouchet@tum.de](mailto:anne-sophie.bouchet@tum.de)