Institute of Plant Breeding, Seed Science and Population Genetics (350)

The Research Group Crop Diversity and Breeding Informatics invites applications for a

Research associate / Doctoral Student (TV-L E13, 65%) in Plant Genetics or Plant Breeding

for the project **Quinoa4Med** which aims at developing quinoa as climate-smart crop diversification option for marginal lands in the Mediterranean. The project is funded by the Partnership for Research and Innovation in the Mediterranean Era (PRIMA; http://prima-med.org) with partners in France, Spain and North Africa. We will develop plant breeding strategies to create quinoa varieties that are adapted to salt, water and heat stress for cultivation in the Mediterranean region. The position is available for a fixed term of three years. The research and the PhD thesis will be supervised by Prof. Karl Schmid.

Project tasks:
- Production of segregating quinoa populations for genetic and phenotypic characterization
- Contribution to genotyping and to phenotyping in controlled greenhouse and field experiments.
- Analysis of genetic and phenotypic variation to develop breeding strategies for quinoa based on phenotypic and genomic selection
- Supervision of Bachelor and Master students who contribute to the above tasks
- Coordination and cooperation with international project partners
- Writing of scientific publications and a PhD thesis; presentations at scientific conferences

Your qualifications:
- Master degree (completed or soon to be completed) in Agricultural Sciences, Crop Science, Plant Genetics, Plant Breeding or related fields
- A strong interest in crop genetics and breeding in the context of climate change adaptation
- Prior experience with R or Python and modern statistical analysis methods
- Scientific creativity and a high ambition to learn new skills if required
- Ability to work in a team and strong networking skills for successful international collaboration

We offer:
- A research project with the possibility to develop and implement your own ideas
- Project supervision in an international research environment within the Competence Unit for Plant Breeding and the Computational Science Lab at the University of Hohenheim
- Support in the publication of results in international, peer-reviewed journals
- Development of professional skills in the PhD graduate program of the Faculty of Agriculture
- Opportunity to build a network with project partners and stakeholders in plant breeding

The position is available from 1 June 2022. Please submit your application (Motivation letter, CV, transcript of records from bachelor and master programs, abstract of your master thesis and contact information of 2 references) as a single PDF file by e-mail with the subject line „Quinoa4Med" to Anja Oehlmann (anja.oehlmann@uni-hohenheim.de) until **6 March 2022**.

For further information, please visit our website (http://evoplant.uni-hohenheim.de) or contact Prof. Karl Schmid (karl.schmid@uni-hohenheim.de).