

The institute of Quantitative Genetics and Genomics of Plants in the faculty of Mathematics and Natural Sciences at Heinrich Heine University Düsseldorf invites applications for the post of

**PostDoc Bioinformatics
(100%; TV-L EG 13)**

available from now on. The position is to be filled for initially one year, with the possibility for an extension for further two years upon performance.

The work of our institute aims to identify the causes of natural phenotypic variation of crop plants on a molecular level, in order to attain an ultimate goal – the prediction of phenotypic performance under various environmental conditions. This requires combined efforts on creating novel plant material, exploiting the possibilities of *omics technologies, and developing innovative biostatistical procedures.

Potato (*Solanum tuberosum*) is the third most important crop species worldwide. However, because of its tetraploid inheritance and its low multiplication coefficient, breeding programs have realized up to now only a low genetic gain for yield traits. Our institute aims at increasing the efficiency of potato breeding by providing novel tools for this important crop species.

Your tasks

- Bioinformatic analyses of DNA sequences created with the help of different high throughput sequencing technologies
- De novo assembly of plant genome sequences as well as their characterization and comparison
- Analysis of transcriptomic and genotyping by sequencing data sets
- Prepare scientific publications

Our requirements:

- MSc&PhD in bioinformatics, biology, computer science, or related disciplines
- Proficiency in programming (e.g. Python, R, C/C++)
- Experience in analyzing high throughput sequencing data sets
- Knowledge in genetics, molecular biology, and biostatistics are of high advantage
- Working experience in an Unix (Linux) environment and with high performance computing are a plus
- Excellent communication skills in English (spoken and written)
- Publications that provide evidence for the skill set outlined above.
- High motivation, ability to work independently, team spirit

We offer:

- An interdisciplinary working environment in an international 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
- The salary will be, depending on the personal qualification of the applicant, up to pay grade TV-L EG 13.

Heinrich Heine University Düsseldorf aims at increasing the percentage of employed women. Applications from women will therefore be given preference in cases of equal aptitude, ability and professional achievements unless there are exceptional reasons for choosing another applicant. Applications from suitably qualified severely disabled persons or disabled persons regarded as being of equal status according to Book IX of the German social Code (SGB – Soziales Gesetzbuch) are encouraged.

Your contact person in case of questions is Benjamin Stich; email: benjamin.stich@hhu.de

Please submit your application documents (curriculum vitae, PhD thesis, copies of academic certificates, description of personal motivation and previous research experience, together with a separate letter of recommendation) citing reference no. PTPostdoc until 20.04.2019 preferentially as a single PDF file to

ines.sigge@hhu.de