# PhD position: Applied bioinformatics in crop plants

**Research:**

The aim of our research is the discovery of genes, markers, and signalling molecules associated to plant traits for improving crop characteristics, quality and productivity. We use the latest molecular and bioinformatics technologies for the generation, analysis and integration of multi-omic data (genome, epigenome, transcriptome, proteome, metabolome and phenome) in order to disclose the genetic basis of plant complex traits.

We mainly work with two plant models, potato and cassava, which are, respectively, the third and fifth most consumed crop plants in the world and the main sources of starch for more than 800 million of people in many developing countries.

The candidate of this position will learn and develop bioinformatics workflows to process, analyze, integrate and model omics data of those crop plants to elucidate the molecular mechanisms responsible for traits of agronomic interest.

More information about the Biocomputing Group can be found in our homepage: https://www.biochemie.nat.uni-erlangen.de/English/research/corralgarcia.html

**Requirements:**

We are looking for a talented and highly motivated PhD student with strong interest in bioinformatics and plant physiology. A master's degree in bioinformatics, molecular biology, integrated life sciences, biochemistry, or related is required. Proficiency in R, MATLAB, Python and the use of shell script are highly advantageous, but not required. Good English communication skills as well as team work abilities are expected.

**Comments:**

The position is initially for a fixed term of three years with the possibility of extension. The payment follows the German TV-L scale being the first year 50% of the group 13, and the following years 65% of the group 13.

The position is available immediately. Reviewing of applications will begin instantly and the position will remain open until a suitable candidate is found. Please send your application as a composite pdf-file in English (letter of motivation stating your research interests, CV, name and addresses of at least two referees) via email not later than 16.12.2019 to: bio-bcsekretariat@fau.de