

The candidate would receive a personalized training in bioinformatic analyses such as RNA-seq, variant calling, genotyping, comparative genomics, phylogeny, and will learn programming languages for the development of bioinformatics tools, databases and web portals. Additionally, the candidate will receive specific training to use the Picasso supercomputing resources (<https://www.res.es/es/nodos-de-la-res/picasso>).

In our group the candidate would be able to interact and collaborate with international and national researchers, experts in plant science, subtropical species, breeding, reproductive biology, NGS, omics, postharvest, and plant-pathogen interaction.

The Ph.D. student will join one the Ph.D. program of the University of Malaga (UMA) related to our field. The *Biotecnología Avanzada* or the *Biología Celular y Molecular* Ph.D. program. As part of the Ph.D. program, the student will attend several scientific seminars monthly.

The candidate will attend national and international seminars and conferences, where he/she will present results of his/her work.

Training in bioinformatics in official courses could cover skills such as:

- UNIX command-lines, AWK and basic tools
- Software development with EasyGDB (PHP, SQL, Javascript, JQuery, HTML, CSS)
- Software implementation
- Advanced genomics, NGS and sequencing processing
- RNA-seq
- Genetic variation analysis and genotyping
- Phylogeny and evolution
- Artificial Intelligence

Additionally, it is planned the candidate participate in international stays to learn bioinformatics skills, and to present our work in workshops or seminars at the institutions of our international collaborators.