

Position Offered: PREDOCTORAL RESEARCHER

Project: *Establishment of the digital ecosystem for the genetic improvement of fruit trees.*

Technological and scientific fields: Big data and information processing technologies, Advanced data analytics/edge computing, Climate change and biodiversity, Data analysis and integration, Image analysis and computer vision, Remote sensing, Artificial Intelligence.

Location: Murcia, Región de Murcia, CEBAS-CSIC, <http://www.cebas.csic.es>

Research Group/PI: Fruit Breeding Group, Pedro José Martínez García, http://www.cebas.csic.es/dep_spain/mejora/mejora_genetica/mejora_lineas.html

PROJECT SUMMARY

The general objective of this project is to enable a digital ecosystem that allows the implementation of smart breeding. To do this, it is necessary to analyze and interpret large volumes of data (Big Data), develop code, applications and software systems in various programming languages and frameworks, implement and maintain technological infrastructures, such as networks, servers and cloud services and the ability to work with emerging technologies such as the Internet of Things (IoT), virtual and augmented reality, blockchain and artificial intelligence. This digital innovation will allow us to generate more precise decision-making, as well as implement much more efficient improvement strategies.

PROFESSIONAL PROFILE

Minimum requirements:

Candidates should have a University Degree and a master's degree in mathematics, statistics, physics or computer science.

Excellent written and oral communication skills in English are essential.

Merits to be considered:

- Excellent academic grades will be highly valued.
- Previous experience in research projects and team.
- Highly motivated and eager to work on biological problems (in plants) using theoretical and computational approaches.
- Good teamwork ability
- Good communication skills, verbal and written, will be valued
- Knowledge of programming languages, databases (relational and non-relational), AI, digital twin, web page designs and algorithm development.
- High level of enthusiasm and motivation; passion for research! (essential!)

WHAT IS OFFERED

The PhD candidate will perform digital and computer work to develop a Doctoral Thesis. Acquisition of knowledge applicable to different research disciplines. Attending national and/or international conferences to present the Thesis outcomes. Collaboration in national and/or international projects. Collaboration with national and/or international researchers.

Contract conditions:

Predocctoral Researcher contract of 4 years' duration. Gross annual salary of 23,871.33 €.

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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