

Position Offered: POSTDOCTORAL RESEARCHER

Project: *Digital Innovation in Agriculture: Remote Sensing, Sensors, and Advanced Data Analytics to Improve the Sustainability of Agricultural Production*

Technological and scientific fields: Digital tools for agriculture, Remote sensing, Sensorization and advanced data analytics/edge computing, Artificial Intelligence

Location: Murcia, Región de Murcia, CEBAS-CSIC, www.cebas.csic.es

Research Group/PI: Plant Nutrition / Vicente Martinez

PROJECT SUMMARY

The AGROTECH project aims to promote the sustainability and resilience of the agrifood sector through the integration of advanced digital technologies. Utilizing remote sensing, sensorization, advanced data analytics, and artificial intelligence, AGROTECH seeks to optimize resource management and improve sustainability and efficiency in agricultural production.

PROFESSIONAL PROFILE

Minimum requirements:

The AGROTECH project aims to promote the sustainability and resilience of the agrifood sector through the integration of advanced digital technologies. Utilizing remote sensing, sensorization, advanced data analytics, and artificial intelligence, AGROTECH seeks to optimize resource management and improve sustainability and efficiency in agricultural production

Merits to be considered:

Knowledge in: Drone image acquisition, monitoring of indoor hydroponic systems (LED lights), management and handling of woody crops in field conditions

Experience: Participation in viticulture projects, soilless crops, management of agricultural systems under climate change conditions, agricultural research projects, especially those related to remote sensing and sensorization. Use of omics techniques such as metabolomics and/or ionomics, plant physiology, etc.

Other valuable aspects: Scientific publications in high-impact journals, participation in international conferences, experience in supervising and mentoring students (supervision of bachelor's and master's theses), certification to operate drones, additional qualifications, awards, scholarships, and recognitions, stays at other national or foreign research centers different from where the thesis was conducted

WHAT IS OFFERED

The AGROTECH project offers the candidate the opportunity to work at the forefront of agricultural innovation through the use of advanced technologies such as remote sensing, sensorization, Big Data, and artificial intelligence. They will collaborate with prominent research groups and entities both nationally and internationally, enriching the interdisciplinary aspect of the work. Additionally, an extensive training plan will be provided, which includes obtaining a total of 277 ECTS over the four-year contract. This plan includes training in emerging technologies, training stays at prestigious institutions such as the University of Catania and the University Miguel Hernández of Elche, and participation in specialized master's programs. The hired individual will attend conferences, seminars, and receive training in advanced digital skills, ensuring comprehensive and continuous professional development

Contract conditions:

Indefinite contract for a Postdoctoral Researcher associated to the Momentum Project of 4 years' duration according to Spanish science law. Gross annual salary (41.000 € - 52.000 €).

Start of contract: before 31 December 2024

PRINCIPAL INVESTIGATOR CONTACT

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