



Call for a PhD Position in Precision Agriculture

Project Description

PAGFRUIT Research project (IP1: Dr. José A. Martínez; IP2: Dr. Jaume Arnó)

PhD Supervisors: Dr. Eduard Gregorio & Dr. Jaume Arnó

Open position for a PhD student in the Precision Agriculture research field. The final resolution is conditioned to a competitive selection process performed at the hosting institution (University of Lleida). If the outcome of the selection is positive for the candidate, the envisaged starting date will be approx. 1.12.2019.

The topic of this proposal is related to "Fruit yield estimation combining photon-based sensors, computer vision and sampling schemes adapted to spatially variable scenarios". The idea is to use photon-based sensors (RGB cameras, photogrammetry, LIDAR, RGB-D sensors) to detect fruits and, combining it with improved sampling techniques, make reliable yield estimates for the farmer. Initially, the research will be focused on apple orchards, where preliminary works have already been performed. Computer vision and machine learning techniques are needed to properly process and interpret field data. In a second stage, sampling methods making use of remote sensing will be applied to develop friendly yield estimation models adapted to spatially variable fruit orchards.

Benefits

- One-year full time contract, renewable up to three years.
- The salary will be regulated by the Royal Decree 103/2019, which approves the Statute of Predoctoral Research Personnel.
- Working in a leading research group on Precision Agriculture.

Requirements

- Master's Degree in Computer Science, Remote Sensing, Electronics Engineering, Telecommunications Engineering, Industrial Engineering, Agricultural Science or any other related major.
- The Master's Degree must have been accomplished after January 2010.
- Good academic CV.



Universitat de Lleida
Departament d'Enginyeria
Agroforestal



Grup de Recerca en AgròTICa
i Agricultura de Precisió
Research Group in AgroICT & Precision Agriculture

- Highly motivated candidates with initiative and team-working abilities.
- English: Good.
- Although not decisive, knowledge in computer vision, machine learning, data processing, spatial data analysis and GIS software will be valued.

Environment

The PhD student will work in Research Group in AgroICT & Precision Agriculture (www.grap.udl.cat) at the Department of Agricultural and Forest Engineering (Universitat de Lleida).

How to apply

If you are interested in this position, please submit your application by email to Dr. Eduard Gregorio (egregorio@eagrof.udl.cat) before August 24. In your email please include the following:

- A brief motivation letter of your application.
- A detailed CV, describing your earlier experience and studies.