

Sustainable double-cropping systems through diversification, circularity and mitigation of N losses: on-farm experimental and modelling approaches

Deadline: 15th October 2026

Role profile: We are seeking a graduate or MSc with strong background in Agricultural, Soil and/or Environmental Sciences and robust interest in modelling to develop his/her PhD in the framework of the **DoubleCrop** project.

Duties and responsibilities: The PhD student will be in charge of (i) developing on-farm field experiments based on sequential double cropping systems integrating soybean or fertigation with micro-filtered pig slurry, (ii) measuring reactive N gas losses as nitrate leaching, nitrous oxide emission and ammonia volatilization and, (ii) leading the parametrization and evaluation of the STICS model for double cropping systems.

Qualifications and skills:

- Master's Degree or equivalent (at least 300 ECTS).
- Degree with minimum average qualification of 7.0/10. For qualifications obtained outside Spain, the average qualification should be computed following the criteria: https://universidades.sede.gob.es/pagina/index/directorio/Equivalencia_notas_media
- Knowledge on field crops agronomy, soil sciences and/or process-based modelling.
- Strong background in data collection and statistical analysis for life sciences.
- Driving license.
- High command of English.
- Strong communication and scientific writing skills.
- Expertise on Mediterranean cropping systems will be highly welcomed.
- Command of Spanish will be welcomed.

Terms: 4 years PhD contract at Universitat de Lleida (UdL) (Lleida, Spain) and salary according to Spanish laws. Candidate must apply to UdL's predoctoral grants call.

About the lab: We work on the interface between agronomy, soil sciences and environmental sciences. For further info, please see: <https://danielplazabonilla.eu/>

About UdL and Lleida: The Universitat de Lleida (UdL) offers a high quality teaching with an old academic tradition of 700 years. It has been ranked among the top three universities in Spain to study Agronomic Engineering. The UdL is a small university, enabling human contact among the different members of the community. Lleida has a high quality of urban living, safe and pleasant. The city is surrounded by the *Horta de Lleida* a highly diverse agricultural area (19,000 ha) with predominance of orchards. Lleida province offers a great range of outdoor activities.

Contacts:

Please, get in contact with us with your letter of interest, academic records and CV:

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