



POSITION: PHD SCHOLARSHIP IN HYDROLOGY, UNIVERSITY OF TUSCIA

A three-year fully funded Ph.D. scholarship is available in the School of Engineering for Energy and Environment of the Department of Economics, Engineering, Society, and Business Organization at University of Tuscia, Viterbo, Italy. The scholarship is co-funded by Ferrero Trading Lux S.A. with the objective to investigate the hydrological response of hazelnut orchards as a function of climate change. The Ph.D. student will work under the supervision of the PI to design and develop predictive tools to forecast the evapotranspiration response of hazelnuts, and to model the hazelnut productivity and water demand in future climatic scenarios. This project will involve training in state-of-the-art techniques for satellite data processing and interpretation, big data analysis through machine learning algorithms, drought identification and modeling. The student is expected to relocate in Viterbo, Italy, and to spend a minimum of 6 months abroad for data collection and experimental work. The scholarship will involve publishing the results of the project in peer-reviewed international journals, presenting at international meetings, and engaging with graduate and undergraduate students, including mentorship opportunities.

QUALIFICATIONS:

The ideal candidate will have an engineering, mathematics, or physics background. Applications are accepted from candidates who expect to receive their degree by June 2024. Admission is conditional to award of relevant degrees by the indicated start date.

Candidates should also possess strong programming skills (MATLAB, Python, C++, GIS products), scientific and analytical expertise, be fluent in spoken and written English, have good communication (oral and written) skills, have the ability to work independently and as part of a team, self-motivation, adaptability, and a positive attitude.

SALARY:

The scholarship includes a salary of 1200 €/month. The amount is increased by up to 50% for any authorized periods of research spent abroad for a maximum of 12 months. A budget up to 10% of the scholarship is provided for research activity in Italy and abroad.

START DATE:

November 1st, 2024.

HOW TO APPLY:

For questions or additional information, please contact Prof. Flavia Tauro (flavia.tauro@unitus.it).