

Post-Doctoral Researcher Scientist: Precision Water Management Agricultural and Biological Engineering (ABE) Department University of Florida

Position: Post-Doctoral Research Scientist: Precision Water Management

Location: Gainesville, Florida.

Position Description: The Precision Water Lab in the Agricultural and Biological Engineering Department is recruiting a post-doctoral research scientist in the field of Precision Water Management focusing on soil moisture sensing as a part of the Florida Agricultural Soil Moisture Sensor Network. The candidate will work in a team environment comprising researchers, graduate students, extension agents, and growers to expand the Florida Agricultural Soil Moisture Sensor Network. The successful candidate should have the knowledge to design custom software to integrate computer vision and IoT components which will be used for data collection and soil moisture monitoring in agricultural fields and engage in developing the AI/ML techniques. Furthermore, the incumbent will maintain online resources for external users once the products are released and the documentation becomes public. In addition, the candidate will get an opportunity to involve in other projects related to precision water and fertilizer management focusing on variable rate irrigation, nutrient technologies, water quality, groundwater leaching, and crop and hydrological modeling. The candidate is expected to have the ability to work effectively in field and lab settings. The successful candidate should be self-motivated, creative, and has the desire to collaborate in a multidisciplinary environment. The candidate will be expected to publish in peer-reviewed journals and conference publications. A review of applications will begin immediately until the position is filled.

Qualifications:

An earned doctorate in Agricultural and Biological Engineering, Digital Agriculture, Precision Agriculture, Soil and Water Resources, or related Fields.

Preferred Qualifications:

The successful candidate should have the knowledge to design custom software to integrate computer vision and IoT components which will be used for data collection and soil moisture monitoring in agricultural fields and engage in developing the AI/ML techniques. Experience in R, Python, and/or C++ programming; Basic understanding of computer vision principles. Applicants should have a good publication record, effective communication skills, and an ability to work collaboratively with researchers, extension personnel, staff, and students in the ABE Department and with other units on campus.

How to Apply: Applicants must submit an application package to Dr. Vivek Sharma at vsharma1@ufl.edu including:

- Cover letter highlighting specific experience related to this position,
- Curriculum vitae,
- List of publications,
- Unofficial transcripts, and
- Contact information of three references.