

**Precision Water Management Lab
Agricultural and Biological Engineering Department
University of Florida**

Graduate Research Assistantship (Ph.D.) – Precision Water Management Lab

Applications are solicited for a Graduate Research Assistant (GRA) position (Ph.D. level) in the Precision Water Management lab in the Agricultural and Biological Engineering Department at the University of Florida Starting in Summer/Fall 2024 under the supervision of Dr. Vivek Sharma. The candidate will work on the NRCS CIG on-farm funded project on Accelerating the Variable Rate Irrigation Technology. The project will include integrating VRI technology with in-field data, remote sensing and Artificial Intelligence and Machine Learning (AI/ML) algorithms to interlink water quantity and quality dynamics and crop productivity relationships and their impact on economic and risk management aspects on local to regional scales. The successful candidate should have relevant experience in precision water management, machine/deep learning. In addition, candidate possess strong programming skills. The successful candidate will be self-motivated, creative, and has a desire to collaborate in a multidisciplinary environment. The candidate will be expected to publish in peer-reviewed journals and conference publications. The GRA will cover stipends, tuition, and fee.

Required Qualifications:

- (i) Appropriate M.S. degree in Agricultural and Biological Engineering, Precision Water Management, Soil and Water Science, Agronomy, Remote Sensing, Hydrology, or any other related field with a GPA of 3.0 or higher.
- (ii) English writing and communication skills.
- (iii) Non-English credentials: TOEFL score of 79 iBT or IELTS score of 6.5 or higher.

Preferred Qualifications:

- (i) Knowledge and experience in applied agricultural water management research and outreach.
- (ii) knowledge in watershed hydrology, soil science, GIS, and hydrological and/or chemical/nutrient fate and transport modeling,
- (iii) Experience and willingness to work in various field conditions,
- (iv) Excellent Data science expertise/ Programming skills – Python, R, or similar language,
- (v) Record of previous scientific communications (journal articles or/and conference publications).

How to Apply: Interested applicants are encouraged to contact Dr. Vivek Sharma (vsharma1@ufl.edu) directly with a copy of your CV, research statement, unofficial transcript, list of publications, and contact information of three references. More information about applying for a graduate degree in Agricultural and Biological Engineering can be found at <https://abe.ufl.edu/graduate/admissions/>