

**PhD Graduate Research Assistantship in Agricultural and Biological Engineering
/Precision Irrigation/UAV-based Crop Phenotyping.**

Location : University of Florida, Agricultural & Biological Engineering Department, Tropical Research and Education Center (TREC), Homestead, Florida

Position Description: The overarching goal of this project is to develop effective strategies for the implementation of precision irrigation management practices that will not only conserve freshwater resources and increase crop yield but also improve water quality and ensure environmental sustainability. This project aims to develop a method that will be used for quantifying field scale actual evapotranspiration rates and crop water stress levels by integrating data from ground measurements, Unmanned Aerial Vehicles (UAVs), and modeling. This is a collaborative project that brings together a diverse team of multi-disciplinary scientists and the student will have an exciting opportunity to engage and collaborate on different topics relevant to the project.

Anticipated start date: Spring 2021

Deadline: applications will be accepted until the position is filled.

Qualification: Ideal candidate is expected to have an MS degree in Agricultural engineering, Water resources engineering, Irrigation engineering, soil and water sciences, hydrology, or agronomy. In addition, having one or more of the following skills will be a plus.

- Computer programming / data analytics
- Remote sensing
- Experience with field research in the area of soil and water management, irrigation, hydrology, water quality.
- Understanding of soil and water sampling methods
- Interest to learn new skills in the use of specialized and emerging technologies.

GRE and TOEFL: applicants are required to send a copy of their GRE score to the Agricultural and Biological Engineering Department. In addition, TOEFL is required for non-native English speakers.

Salary: Competitive salary will be provided.

How to apply: If interested, please contact Dr. Haimanote Bayabil at hbayabil@ufl.edu with a copy of your CV, GRE/TOEFL scores, and research statement.