Title: Postdoctoral Research Associate

Location: University of Florida, Soil and Water Sciences Department, Gainesville, FL

Position description

A two-year postdoctoral position is available at the University of Florida (Gainesville, FL) to study the effects of nutrient and water management in organic mixed vegetable production systems. This postdoctoral research associate will be based in the Sustainable Nutrient Management Systems Lab and primarily advised by Dr. Maltais-Landry and co-advised by Dr. Eban Bean in the Agricultural & Biological Engineering Department.

This position is linked to a Southern SARE grant project (see description at https://projects.sare.org/sare_project/LS20-334/) that combines field research conducted at the UF Plant Science Research and Education Unit (Citra, FL) with field trials conducted on growers' fields located in Alachua County. This work will mainly focus on carbon and nutrient cycling (primarily nitrogen and phosphorus) in crops and soils, soil health, and water management. The research associate will work in both field and lab conditions, and they will have to analyze and interpret data from different focus areas. As such, experience and expertise are necessary in both nutrient cycling (in both crops and soils) and water management.

We expect the postdoctoral research associate to have the ability to work effectively in both field and lab settings and to play an important leadership role in an inter-disciplinary project. The research associate will also contribute to research design, in addition to leading data analysis and writing activities. This project involves an extension component, and the research associate is expected to help organize and participate in these events.

Responsibilities:

- Help with experimental design for on-station and on-farm research
- Implement experiments and collect samples, in a hot and humid environment
- Process experimental samples, including in the laboratory
- Analyze and interpret data using appropriate statistical methods
- Review relevant literature
- Prepare manuscripts for publication in peer-reviewed journals
- Work and coordinate with other members of the research team, from undergraduate interns to other professors that are co-PI on the grant

Minimum qualifications:

- PhD in biology, soil science, agricultural sciences (e.g., Agronomy, Horticulture) or related engineering field (e.g., Agricultural, Biological, or Ecological)
- Expertise in nutrient cycling or water management
- Experience and ease working with R to analyze and visualize data
- Effective scientific writing and publication in English

Preferred qualifications: Expertise in both nutrient cycling and water management, proficiency with R to conduct statistical analyses and plot figures, experience with grant and manuscript writing

Advertised salary: $50,000 plus benefits

Start date: Ideally April 1, 2021; must be before May 15, 2021

Interested? Submit a cover letter, a CV and a list of three references (with contact information) to Gabriel Maltais-Landry (maltaislandryg@ufl.edu) by Dec. 15, 2020.