



Graduate Assistantship in Carbon Sequestration through Regenerative Farming

Starting Fall 2021, the Soil and Water Sciences Department at the University of Florida is seeking one highly qualified PhD student in the field of C-sequestration research through regenerative farming practices. The candidate will be located at the Everglades Research and Education Center in Belle Glade, Florida, working under the supervision on Dr. Jehangir H. Bhadha. Potential research objectives include: (i) Identify cover-crops and suitable mixes that would grow well on organic (histosols) soils during fallow (summer and winter) periods; (ii) Determine the effects of cover-crops on C-sequestration, organic matter buildup, and soil health; (iii) Determine the effects of organic amendments such as bagasse and rice-hulls on C-sequestration, organic matter buildup, and soil health; (iv) Evaluate effects of cultivating flooded rice on C-sequestration and soil health compared to fallow fields; (v) Estimate Return of Investment (ROI) in terms of unit C sequestered; (vi) Investigate existing methods and develop new ones to measure SOM and total C in organic soils; (vii) Explore feasibility of cover cropping on mineral (sandy) soils within the region. This will be a four-year project funded by the Everglades Research and Education Center.

Candidates with a MS degree in Soil Sciences, Agronomy, Horticultural Sciences, Environmental Sciences, or related fields will be desired. Looking for a highly motivated applicant with experience in field and lab work. High GPA and along with a strong publication record, experience working with soil health or regenerative farming practices is a plus.

For more information, contact Dr. Jehangir H. Bhadha jango@ufl.edu, and submit a formal application to the UF Soil and Water Sciences Department Graduate Program by January 2, 2021:

<http://soils.ifas.ufl.edu/academics/graduate-studies/apply/>