



SOIL SCIENCE POSTDOCTORAL POSITION

POSITION	Postdoctoral Position in Agrometeorology for Soil-based Climate Change Mitigation Strategies at North Carolina State University
JOB DESCRIPTION	<p>As part of the Climate Adaptation through Agriculture & Soil Management (CASM) initiative in the Department of Crop and Soil Sciences at NCSU, we are hiring a 2-year postdoctoral research position related to mitigating climate change through soil carbon sequestration and GHG emission reduction in agricultural systems.</p> <p>We are seeking a highly motivated postdoctoral research associate to develop and expand the GHG program in the Sustainable Soils Lab. The successful candidate needs to demonstrate strong expertise in agrometeorological measurement of GHG emissions including eddy covariance techniques. This includes experience with field instrumentation maintenance (data loggers, soil sensors etc.) and management of large continuous data sets including processing and data quality control. In addition, experience with GHG analytical equipment, fundamental knowledge in nitrogen and carbon cycling and experience with field-based research is desired.</p> <p>Major Responsibilities include: (1) Manage and conduct novel research at a 32-acre field-scale micrometeorological experiment focused on climate-smart practices located at the Tidewater Research Station measuring nitrous oxide and carbon dioxide emissions, energy balance and water dynamics in diverse crop rotation systems. (2) Assist in the continuous monitoring experiment using automated chambers for measurement of CO₂ and N₂O located within a long-term study in eastern NC. (3) The individual will also have the opportunity to work in other GHG and soil carbon experiments in the lab and greenhouse scale as part of the larger CASM team.</p> <p>Qualifications: Ph.D. in a discipline relevant to soil carbon and nitrogen dynamics, micrometeorology and agronomy; experience using and maintaining analytical equipment used to quantify GHGs and SOC; experience managing field experiments (preferably agricultural); and excellent writing and communication skills in English.</p>

LOCATION	<p>Crop & Soil Sciences Department, North Carolina State University, Raleigh, NC</p> <p>This position will be located within the newly opened Plant Science Building (PSB). This building has state-of-the-art facilities and represents cross-cutting research in innovation in plant sciences. The department of crop and soil sciences is unique among our U.S. and international peers due to our broad and intensive expertise spanning land use, agriculture, and environmental protection. Our outstanding faculty and strong collaborations with other scientists at our Research I university and elsewhere make us an internationally-recognized center for innovative research and graduate training. We seek high quality students pursuing careers in soil science and related fields.</p> <p>The Raleigh-Durham area consistently ranks among the best places to live in the United States, largely due to its vibrant intellectual community and ample access to recreational and cultural activities.</p>
HOW TO APPLY:	<p>The position will remain open until a qualified candidate is identified or hired. For Applicants interested please contact Dr. Alex Woodley (alwoodle@ncsu.edu). Please send an updated CV including a complete list of publications and a list of references.</p>
DATE AVAILABLE:	January 1 2024 or until a suitable candidate is identified