

The Spivak Coastal Biogeochemistry lab at the University of Georgia seeks a Postdoctoral Associate to contribute to research of soil carbon preservation mechanisms in salt marshes. The Postdoctoral Associate will lead lab- and field- based experiments focusing on how redox conditions alter plant-microbe-mineral interactions and organic matter transformations in wetland soils. This will include conducting mechanistic experiments, using stable isotope tracers, sharing and publishing results, and working closely with an interdisciplinary team of external collaborators. This position is part of a larger, multi-year project assessing hydrological controls on marsh ecosystem functioning, from microbes-to-landscapes.

Responsibilities:

- Conduct microcosm and mesocosm experiments and manipulate redox conditions.
- Use multiple, complementary sensor and geochemical techniques.
- Regular travel to field sites in Massachusetts (PIE-LTER).
- Lead data analysis, manuscript preparation, and publication.
- Present results at relevant conferences and project meetings.
- Mentor junior students and lab members.

Qualifications and experience

- Ph.D. in Geoscience, Marine Science, Soil Science, Environmental Science, or related field.
- Knowledge of soil and / or wetland biogeochemistry.
- Experience with stable isotope tracers, mass spectrometry, organic and inorganic soil analyses, and microsensors.
- Ability to conduct field work in salt marshes, hike over uneven and wet terrain, and lift 50 lbs.
- Experience analyzing and visualizing data in R and / or Matlab.
- Excellent interpersonal, teamwork, written, and verbal communication skills.
- Demonstrated record of publication in scientific journals.
- Ability to work with minimal supervision and provide supervision and mentorship to others.

This position reports to Dr. Amanda Spivak in the Marine Sciences Department on UGA's Athens campus. The appointment is for one year, with the option for renewal upon satisfactory performance. This full-time position offers salary and employee benefits in accordance with UGA policy. Applicants must submit a cover letter describing their expertise and interests, CV, one publication exemplifying their research, and contact information for three references. Letters of reference will be requested as needed. Application materials can be submitted here: <https://www.ugajobsearch.com/postings/357133/>. Review will begin immediately and continue until the position is filled, with the candidate starting during Spring or Summer 2024. Address inquiries to Dr. Spivak at [aspivak\[at\]uga.edu](mailto:aspivak[at]uga.edu).

The Marine Sciences Department (<https://www.marsci.uga.edu/>) is within UGA's Franklin College of Arts and Sciences. UGA has unique analytical facilities, including the Center for Applied Isotope Studies (<https://cais.uga.edu/>), Georgia Genomics and Bioinformatics Core (<https://dna.uga.edu/>), and the Complex Carbohydrates Research Center (<https://www.ccrc.uga.edu/>) which houses a state-of-the-art NMR facility. UGA provides professional development and networking opportunities through the Office of Postdoctoral Affairs (<https://postdocs.uga.edu/>). The Spivak Lab is committed to supporting and sustaining a collaborative work and learning environment. All qualified applicants will receive consideration without regard to race, color, national or ethnic origin, sex, sexual orientation, gender identity, pregnancy, disability, religion, age, or protected veteran status.