



Postdoctoral Research Associate: Coastal Carbon Sensor Development & Testing

The Fulweiler lab at Boston University (www.fulweilerlab.com) is looking for a postdoctoral research associate with experience in developing geochemical sensors for coastal or open-ocean biogeochemical measurements. The postdoctoral research associate will work on a newly funded NSF award titled, “*CoPe: EAGER: Collaborative Research: Development of A Novel, Mobile Coastal Observatory for Quantifying Coastal Carbon Cycling by Professional and Citizen Scientists.*” This is a collaborative project with the Girguis lab at Harvard University (www.oeb.harvard.edu/faculty/girguis/) and Dr. Zara Mirmalek at the Harvard Kennedy School (<http://sts.hks.harvard.edu/people/fellows/zara-mirmalek/>).

The goal of our project is to advance our knowledge of coastal ecosystems by addressing a long-standing limitation: the lack of low cost, higher performance distributed sensors that are available to a broad diversity of stakeholders (e.g., academic scientists from research and teaching institutions, government agency scientists such as fisheries scientists and water quality managers, citizen scientists). This proposal addresses this need with two new developments: a novel sensor suite and a novel stakeholder sensor share model. This project will contribute to an further understanding of coastal carbon cycling, while developing a new model for sensor sharing that will be widely applicable to other ecosystems and data collection needs.

We are looking for a postdoctoral scholar who is experienced in marine, coastal, and/or open-ocean biogeochemistry, and who has extensive experience with geochemical sensors and samplers. This includes any or all of the following: A) designing and fabricating novel biogeochemical sensors or samplers; B) adapting and/or modifying commercial off-the-shelf hardware for use in coastal biogeochemical sensing and sampling; C) adapting and/or modifying commercial off-the-shelf software to support sensors used in coastal biogeochemical sensing and sampling; D) testing, calibrating, and benchmarking novel sensors against standard laboratory instruments; and E) publishing peer-reviewed articles on any or all of the aforementioned topics. The ideal candidate should be willing to participate in short field expeditions to test equipment over the course of the project. S/he should also have experience with multivariate statistical tools, and an ability to work with complex data sets. Equally important, the candidate must have the ability to work independently and as part of an interdisciplinary team and to be effective in communication and receptive to feedback.

The initial appointment is available for one year, with a possibility of renewal for an additional 6 months contingent upon satisfactory performance. Interested scientists should send a cover letter, their CV, up to two of their relevant peer-reviewed publications with a brief explanation as to why these publications best represent their work, and the names and contact information of three references, to Dr. Robinson (“Wally”) Fulweiler (rwf@bu.edu) and Melissa Hagy (mehagy@bu.edu). Please use the subject line: Carbon Postdoc.

Starting date: Winter/Early Spring 2020. A Ph.D. in a related field is required at the time of appointment. Boston University is an equal opportunity employer, and we encourage persons of all backgrounds to apply.