PhD Graduate Student Position in Ocean Biogeochemistry at the University of New Hampshire

We are seeking a PhD-level graduate student in Ocean Biogeochemistry, working on the topic of marine dissolved organic carbon (DOC) cycling. The position is located at the University of New Hampshire's main campus in Durham, NH within the Ocean Process Analysis Laboratory (OPAL), a research center within the School of Marine Science & Ocean Engineering (SMSOE).

UNH is seeking a self-motivated and independent candidate with a strong background in one or more of the following arenas: marine sciences, numerical modeling of Earth system phenomena, computer programming, large dataset analyses, and mathematics. The successful candidate will be responsible for implementing representation of additional biogeochemical processes that control the cycling of marine DOC and its isotopes within the ocean component of the Community Earth System Model (CESM). Multi-centennial simulations of the CESM will be carried out and analyzed to assess the carbon-climate feedback between marine DOC and ocean CO2 storage.

The position is part of a funded project to study the biogeochemical processes that contribute to the production and preservation of the long-lived marine 'refractory' DOC. The successful candidate will join the research group of Dr. Robert Letscher, engaged in at-sea, laboratory, and numerical modeling investigation of ocean biogeochemistry. The project will include collaboration with a team from the University of California, Santa Barbara lead by Dr. Tim DeVries.

The position is fully funded for a period of three years with opportunities to obtain supplementary funding in support of the additional years of study towards the PhD degree. The position does not require travel or field work except for participation in scientific conferences. Minimum qualifications to include a B.S. degree in the general fields of oceanography, terrestrial or atmospheric science, computer science, or mathematics. Desired qualifications to include a strong background in computer programming (e.g. Matlab, Python, Fortran, etc.) or experience in large data array analysis. Candidates should submit a CV and an introductory email to Dr. Robert Letscher (robert.letscher@unh.edu). Review of applications will begin immediately and continue until the position is filled. Preferred start date is the Fall 2022 semester (August 2022) with an earlier start date of Spring 2022 semester (January 2022) possible.

Expiration date: February 28, 2022