**Postdoctoral Fellow at Dartmouth-Ocean CDR**

Description

Applications are invited for a postdoctoral position in the Department of Earth Sciences to study the interaction of clay minerals with marine microbes.  This position is part of a multi-disciplinary program evaluating the extent to which clay minerals can be utilized to recruit marine biological pump to sequester atmospheric carbon.  We are studying the interaction of clay minerals with dissolved organic carbon, bacteria, and phytoplankton.  The person in this position will work with Dr. Mukul Sharma (Professor of Earth Sciences, Dartmouth) and collaborate with Dr. George O’Toole (Elmer R. Pfefferkorn, PhD, Professor of Microbiology and Immunology, Dartmouth), and Dr. Erik Zinser (Associate Professor of Microbiology, University of Tennessee) to elucidate the interaction between clay minerals-biopolymers-bacteria-phytoplankton in lab microcosms.

Responsibilities include using geochemical, microbiological, and genomic techniques to evaluate nutrient release, organo-clay hybrid ('floc") formation, impact on microbial community structure, and gas evolution that occur following clay addition to seawater.

The selected candidate is expected to begin as soon as possible.  The initial duration of the position is two years.

To learn more about Dartmouth and the Department of Earth Sciences, visit [http://www.dartmouth.edu/~earthsci](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.dartmouth.edu%2F~earthsci&data=05%7C01%7Cmzawoysky%40whoi.edu%7C97ce987442c4479be6d108da81e7992b%7Cd44c5cc6d18c46cc8abd4fdf5b6e5944%7C0%7C0%7C637965128946894749%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=hKOraw1Tk6CdF%2B2D4iw81Tqeisi74I5i62berO0B654%3D&reserved=0).

The Department of Earth Sciences, and Dartmouth as a whole, are highly committed to fostering a diverse and inclusive population of students, faculty, and staff.  We are especially interested in applicants who are able to work effectively with students, faculty, and staff from all backgrounds, including but not limited to: racial and ethnic minorities, women, individuals who identify with LGBTQ+ communities, individuals with disabilities, individuals from lower income backgrounds, and/or first-generation college graduates.  Our labs regularly host students participating in undergraduate diversity initiatives in STEM research, such as our Women in Science Project, E.E. Just Program, and Academic Summer Undergraduate Research Experience (ASURE).

Qualifications

Applicants for this position must have a PhD in geobiology, microbiology, or equivalent by the time of the appointment. An important requirement is to have experience in culturing microbes. Experience with bioinformatics, geochemical analytical techniques, familiarity with marine biochemistry/chemical oceanography/clay mineralogy literature and/or iron fertilization experiments in the ocean, and experience working with microcosms is strongly preferred but not required.

Application Instructions

Please submit all materials electronically via Interfolio ([http://apply.interfolio.com/111239](https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fapply.interfolio.com%2F111239&data=05%7C01%7Cmzawoysky%40whoi.edu%7C97ce987442c4479be6d108da81e7992b%7Cd44c5cc6d18c46cc8abd4fdf5b6e5944%7C0%7C0%7C637965128946894749%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=%2BdDPllPjiB1JS09gkFfwtj84Jv%2B0l8lT1gdHEtLHlck%3D&reserved=0)):

1)  Research Statement, describing interests and experience (1-2 pages)

2)  CV, including the names of three individuals who can provide letters of recommendation

3)  Complete lists of publications

Review of applications will begin on September 15, 2022, and continue until the position is filled.  Questions regarding the position should be directed to Professor Mukul Sharma ([Mukul.Sharma@Dartmouth.edu](mailto:Mukul.Sharma@Dartmouth.edu)).