Applications Being Accepted for Summer 2016 Brown LINK Award Internships at the Marine Biological Laboratory in Woods Hole, MA

Two research internships at the Marine Biological Laboratory (MBL) in Woods Hole, MA will be offered in the summer 2016 through the Brown LINK Award Program. Internship funding is provided by the generous support from Charles and Phyllis Rosenthal.

Listed below are four internship opportunities at MBL. Other internships may be available through direct contact with other MBL faculty. For more information contact Alison Maksym at the Brown-MBL Partnership at amaksym@mbl.edu.

Applications are due Friday, March 11, 2016 by 12 noon on UFUNDS. Each applicant must contact MBL prior to applying for this opportunity.

For information on the Brown LINK award application process go to: http://www.brown.edu/campus-life/support/careerlab/link or contact Sarah Brown at Brown's CareerLAB at sarah_brown1@brown.edu

1. Internship at MBL’s Josephine Bay Paul Center

Applications are invited for a molecular biology/biochemistry internship at the MBL Josephine Bay Paul Center for Comparative Molecular Biology and Evolution. The Arkhipova lab is interested in investigating the role of horizontal gene transfer and mobile genetic elements in eukaryotic genome evolution. Possible internship projects involve construction of plasmids expressing recombinant proteins in bacteria, including eukaryotic host genes of foreign origin and/or mobile element-encoded enzymes, and testing recombinant proteins for functional activity. These projects can provide excellent training opportunities and experience for future graduate work.

Requirements: familiarity with basic lab environment and general interest in wet-lab research.

Further details about our research can be found at http://www.mbl.edu/jbpc/staff/arkhipova/

If interested, please contact Dr. Irina Arkhipova at iarkhipova@mbl.edu for more information.

2. Internship at Maureen Conte Lab, MBL Ecosystems Center

Applications are being accepted for the project entitled “The biogeochemistry of the oceanic particle flux in the deep Sargasso Sea”. The flux of particles through the oceanic water column controls, in part, the geochemical cycles of many elements and delivers organic materials that provide the main food supply for life below the surface sunlit zone of the ocean. The 35+ year Oceanic Flux Program (OFP) time-series of particle flux in the deep Sargasso Sea, the longest time-series of its kind, has produced a seminal record of temporal variations in deep ocean flux magnitude and composition on time scales of weeks-decades. Ongoing studies of the flux material collected by the OFP's sediment traps have revealed key processes that control the flux and recycling of particles in the water column and also have contributed to the development of chemical tracers (proxies) that are used to elucidate signals of past earth history preserved in ocean sediments. The Brown-LINK undergraduate researcher will conduct geochemical studies of OFP material to better understand controls on the oceanic particle flux. The specific project will be tailored to the undergraduate's interests. The successful applicant will have a strong background in chemical
methods and an interest in environmental and earth sciences. For more information on the OFP time-series go to: http://www.tos.org/oceanography/archive/27-1_conte.pdf.

If interested, contact Dr. Maureen Conte at mconte@mbl.edu or 508/289-7744.

3. Internship at Ivan Valiela Lab, MBL Ecosystems Center

Applications are invited for an internship at the Valiela Lab (http://www.mbl.edu/ecosystems/valiela/) at MBL’s Ecosystems Center to work on a local estuary project in Cape Cod focusing on an on-going coastal eutrophication study. Most fieldwork will be conducted at Waquoit Bay in Cape Cod, an area currently experiencing changes in nitrogen inputs from atmospheric and land-derived sources. Field work and lab duties may include collecting water samples and analyzing nutrient and chlorophyll concentrations, collecting and weighing algal biomass samples, and processing samples for carbon and nitrogen isotope analysis.

Requirements: familiarity with basic lab and field work and general interest in coastal ecology.

Training and mentoring will be provided by Distinguished Scientist Dr. Ivan Valiela and Postdoctoral Scientist Dr. Javier Lloret.

If interested, please contact Dr. Javier Lloret at jllloret@mbl.edu for more information.

4. Internship at the TIDE Project, MBL Ecosystems Center

One or two internship positions are available as part of the Tide Project. The student(s) will be part of a team of researchers working on the TIDE Project, a long-term coastal ecology experiment studying the effects of nutrient enrichment on salt marsh ecosystems. Duties include assisting in a nutrient enrichment experiment, collecting a wide variety of samples in the field, and processing data in the lab. In addition, the student(s) will work closely with Dr. Linda Deegan and David Behringer on an experimental manipulation examining the contribution of distinct marsh habitats to fish production and other food web dynamics. The position involves long workdays in the field and the student must be able to lift and carry gear up to 50 lbs across uneven marsh terrain. The successful applicant(s) will work and live at the MBL’s Plum Island Estuary field station (North of Boston) for 10 weeks starting in June 2016.

If interested, please contact Dr. Linda Deegan at ldeegan@mbl.edu or David Behringer at dbehringer@mbl.edu.