

Opportunity: Emulsion Characterization Study for Improved Bilgewater Treatment and Management

Locations:

Naval Surface Warfare Center, Carderock Division (NSWCCD)
9500 MacArthur Boulevard
West Bethesda, MD 20817-5700

Naval Research Laboratory (NRL)
4555 Overlook Ave., SW
Washington, DC 20375

Advisors:

Dr. Jack Price; Ms. Danielle Paynter

Start Date: April-June 2018

Description:

The selected post-doctoral candidate will be working with the Oil Pollution Abatement (OPA) program at the Naval Surface Warfare Center, Carderock Division (NSWCCD), a Navy laboratory located in the DC metro area. The candidate will be selected to support a three year proposal focused on investigating and characterizing chemical, thermodynamic and physical characteristics of laboratory prepared and actual bilgewater samples. The purpose of this work is to advance the current understanding of bilgewater emulsion stabilization to guide wastewater treatment research and develop preventative solutions. Therefore, the candidate must have experience in colloidal systems specifically in the formation and stabilization of oil-in-water emulsions and familiarity with chemical characterization methods. Modeling experience is preferable but not required.

Logistics:

While NSWCCD is the lead organization, there will be significant participation from our partners at the Naval Research Laboratory (NRL) and the post-doctoral candidate will be expected to work at both NSWCCD and NRL locations. In addition, the candidate will need to be a U.S. citizen in order to obtain a Secret clearance. The post-doctoral candidate would be selected for a minimum of one year with an optional but likely maximum three year tenure.

**Interested candidates should send CVs and questions to Ms. Danielle Paynter
danielle.paynter@navy.mil**