



Duke University Job Description: MATE/MARINE TECHNICIAN (0823)

Job Title: MATE/MARINE TECHNICIAN

Job Code: 0823

FLSA: N

Job Level: 00

Revised Date: 09/01/2019

Job Family: JF 09

Occupational Summary

Position serves as the full-time or part-time Mate/ Marine Technician of the new 77' aluminum catamaran oceanographic research vessel, RV Shearwater, operated by Duke University and located at the Duke University Marine Laboratory.

Reporting to the Captain of the RV Shearwater, this position will be acting as crew, assisting the Captain with vessel operations and maintenance. This position will also be acting as marine technician, overseeing the operation and maintenance of shipboard scientific research equipment. Seagoing and shore efforts will be split between frequent cruises. Some work on weekends and holidays will be required.

Work Performed

Reports to and works collaboratively with the Captain.

Assists the Captain in the operation of the vessel.

Stands navigation watch in rotation as required.

Serves as a deckhand by handling lines and rigging equipment.

Operates deck machinery and cargo handling equipment, including the launch/recovery of the RHIB and other overt-the-side scientific equipment.

Under the direction of the Captain, performs general maintenance duties to include interior and exterior preventative maintenance and housekeeping.

Participation in a Chemical Testing Program as defined by 46 CFR parts 4 and 16, 33 CFR part 95 and 49 CFR part 40.

Performs other related duties under the direction of the Captain.

Marine Technician:

Serve as a seagoing marine technician.

Participates in cruise planning, the preparation and staging of scientific equipment, and the scheduling of equipment requests.

Works with the Captain to ensure the safety and effectiveness of over- the-side scientific equipment deployments and recoveries.

Provides oversight and technical assistance of shipboard scientific sampling for science party, students and passengers. Instructs personnel proper use of shipboard scientific equipment and assists in the collection of data that will be used in archival scientific publications and databases.

Working with the Chief Scientist and Captain, determines the best process for collection of the data, and provides an initial assessment of the quality of the data.

Installs, calibrates, upgrades, maintains, repairs and manages shipboard scientific equipment and electronic systems.

Fulfills the post-cruise obligation of data dissemination to scientists and national data archives.

Required Qualifications at this Level

Education/Training: USCG Able Seaman document
 USCG Medical Certificate
 USCG approved drug test
 CPR and First Aid training certificate
 High School Diploma or equivalent

Experience: Experience on a similar vessel as the R/V Shearwater or boat-related work

 Working knowledge of common oceanographic equipment (e.g., CTD, ADCP, sonars), as well as over the side deployment and recovery of research gear (e.g., moorings, buoys, gliders, trawls)

 Must understand the principles of good seamanship

 General knowledge of marine maintenance with respect to small boats and deck equipment to include operation of diesel and gasoline engines, pumps, compressors, generators, hydraulic systems, electrical systems, winches and other equipment common to research vessels.

Skills: N/A

The intent of this job description is to provide a representative and level of the types of duties and responsibilities that will be required of positions given this title and shall not be construed as a declaration of the total of the specific duties and responsibilities of any particular position. Employees may be directed to perform job-related tasks other than those specifically presented in this description.

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Duke aspires to create a community built on collaboration, innovation, creativity, and belonging. Our collective success depends on the robust exchange of ideas—an exchange that is best when the rich diversity of our perspectives, backgrounds, and experiences flourishes. To achieve this exchange, it is essential that all members of

the community feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard. All members of our community have a responsibility to uphold these values.

Essential Physical Job Functions

Certain jobs at Duke University and Duke University Health System may include essential job functions that require specific physical and/or mental abilities. Additional information and provision for requests for reasonable accommodation will be provided by each hiring department.