

Class Code:.....0266
Position #:(PSA).(E).....8630
Developed by:.....CB
Reviewed by:.....SG
Approved by:.....LK
Date:.....11/12

UNIVERSITY OF RHODE ISLAND
Position Description

TITLE: Ocean Engineer
DIVISION: Academic Affairs (College of Engineering: Ocean Engineering)
REPORTS TO: Department Chair
GRADE: 11
SUPERVISES: Extensive laboratories and all users of those facilities

BASIC FUNCTION:

Engineering support to maintain and operate major laboratories located in the Department of Ocean Engineering, including associated test equipment.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Perform custom engineering of departmental laboratory equipment and experiments, including mechanical, electrical, and software system components.

Maintain and operate shared departmental laboratory resources, including wave maker, ship's model testing tank, towing carriage, and acoustic test tank.

Manage and maintain the Ocean Engineering/Oceanography Teaching and Design Laboratories.

Perform custom engineering design and fabrication for acoustic transducers, underwater vehicles, and surface vehicles.

Assist in undergraduate and graduate laboratory teaching sessions by instructing students in the operation of laboratory equipment.

Supervise/instruct graduate and undergraduate students in the use of laboratory equipment.

Ensure safe procedures are followed for general laboratory use.

Maintain equipment and perform inventory control in undergraduate workspaces and departmental workspaces.

Advise on improvements and enhancements to Ocean Engineering's research facilities, and the need for equipment enhancements, updates, or other necessary changes.

OTHER DUTIES AND RESPONSIBILITIES:

Support unmanned underwater and surface vehicle development, deployment, and maintenance.

Perform additional duties as required.

LICENSES, TOOLS AND EQUIPMENT:

Personal computers, printers; word processing, database, spreadsheet software; LabView, Matlab, and solid modeling software (e.g., SolidWorks); machine tools.

ENVIRONMENTAL CONDITIONS:

This position is not substantially exposed to adverse environmental conditions.

QUALIFICATIONS:

Required: Bachelor's degree in ocean engineering, naval architecture, marine engineering, electrical engineering, mechanical engineering, or equivalent degree; one to three years of demonstrated professional experience with general engineering laboratory equipment, data acquisition systems, electronics and instrumentation; demonstrated strong interpersonal skills and ability to communicate effectively both orally and in writing; demonstrated ability to interact with diverse groups; demonstrated ability to organize, coordinate and supervise students and/or support staff.

Preferred: Master's degree in ocean engineering, naval architecture, marine engineering, electrical engineering, mechanical engineering, or equivalent; demonstrated experience with ocean-based laboratories (e.g., towing tank, wave tank, acoustic tank, etc.) and/or field experience with unmanned underwater vehicles, surface vehicles, research vessel operations; demonstrated familiarity with LabView, Matlab, and solid modeling software (e.g., SolidWorks); demonstrated experience with machine tools and prototype construction.

ALL REQUIREMENTS ARE SUBJECT TO POSSIBLE MODIFICATION TO REASONABLY ACCOMMODATE INDIVIDUALS WITH DISABILITIES.