Class Code:.....0120
Position#:(PSA).....
Developed by:.....RW
Reviewed by:.....
Approved by:.....
Date:.....08/05

UNIVERSITY OF RHODE ISLAND
Position Description

TITLE: Assistant Marine Development Engineer

DIVISION: Academic Affairs (Graduate School of Oceanography)

REPORTS TO: Principal Investigator and/or more senior level Marine Development Engineer

GRADE: 9

SUPERVISES: Support staff

BASIC FUNCTION:

Works under supervision to assist in the design, fabrication, testing, and operation of field-deployed oceanographic equipment such as Inverted Echo Sounders with pressure and current sensors. Assists with laboratory and shipboard equipment in support of these systems.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

Under supervision, perform the engineering tasks of testing and calibration of instrumentation, with troubleshooting, operating, and repairing Inverted Echo Sounders and associated mechanical and electronic systems. Perform non-routine engineering tasks as they arise.

Order components and maintain an inventory of components and supplies for instrument fabrication. Assist with instrument fabrication.

Organize logistics for shipping and cruise preparations. Participate in scientific research cruises.

Write reports on instrumentation development and testing.

OTHER DUTIES AND RESPONSIBILITIES:

May assist with engineering design projects.

Perform additional duties as required.

LICENSES, TOOLS AND EQUIPMENT:

Electronic test equipment such as oscilloscopes, frequency counters, multimeters, random noise generators, echo simulators; Windows and UNIX computer systems, printers and word processing, Autocad, Matlab, database management and spreadsheet software.

ENVIRONMENTAL CONDITIONS:

This position is not substantially exposed to adverse environmental conditions, but the incumbent will be required to go to sea for extended periods on a variety of US and foreign ships.

QUALIFICATIONS:

Required: B.S. degree in electrical engineering. The following are also required: strong electronics experience and skills with the above listed electronic test equipment; strong computer skills with the above listed applications (Matlab, Autocad, database management and spreadsheets); ability to communicate effectively verbally and in writing; experience and ability to work at sea for extended periods of time, logistics support for large oceanographic field programs. Preference will be given to candidates with skills in the following areas: digital circuits, microprocessors, electro-mechanical assembly of deep-ocean equipment, underwater acoustics, logistics for circuit board fabrication.

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