

Job Code:..... 100261  
Position#: (PSA).... (E)  
Developed by:....SG;JP  
Reviewed by:.....DLJ  
Approved by:.....LK  
Date:01/03;09/17;10/19

**UNIVERSITY OF RHODE ISLAND**  
**Position Description**

**TITLE:** Associate Marine Development Engineer I  
**DIVISION:** Academic Affairs (Graduate School of Oceanography)  
**REPORTS TO:** Principal Investigator and/or more senior level Marine Development Engineer  
**GRADE:** 12  
**SUPERVISES:** Support staff

**BASIC FUNCTION:**

Develop, install, and operate shipboard and shoreside systems infrastructure used for telepresence and data transfer aboard research and exploration vessels. Perform systems integration and development as needed to support specific projects. Research and identify potential new technologies suitable for use in the field environment. Provide technical oversight during testing and commissioning of new systems, with an emphasis on organizing, gathering, and reporting data.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

Support real-time connectivity (telepresence) between science, education, and outreach teams located on research and exploration vessels, and remote shore-based users.

Design, commissioning, and operational support for shipboard and shoreside IP networks, with specific emphasis on low-latency, real-time bidirectional audio, video, and data connectivity.

Testing and installation of shipboard satellite systems and other shipboard wireless communication systems.

Development of software as needed to fulfill specific project objectives.

Interact with vendors as needed to support existing infrastructure and potential capital projects. Perform purchasing research and assist with identifying and selecting potential commercial partners.

Support of a wide variety of operations aboard the vessel, including ROV/HOV dives, AUV operations, mapping, and live broadcasts.

Assist with planning of capital projects as needed. Assist with routine and emergency maintenance as needed. Fabrication of equipment as required.

Assistance with shipping logistics as required.

Asset in the inspection and approve of the quality and completeness of work by vendors and contractors.

Be available for routine and emergency work nights and weekends.

Travel and work at sea may be required in the performance of the duties of the position.

**OTHER DUTIES AND RESPONSIBILITIES:**

Perform additional duties as required.

**LICENSES, TOOLS AND EQUIPMENT:**

Personal computers, printers and word processing, database management and spreadsheet software.

**ENVIRONMENTAL CONDITIONS:**

This position is not substantially exposed to adverse environmental conditions. Environmental conditions will occasionally include those typical of a ship underway.

**QUALIFICATIONS:**

**REQUIRED:** Bachelor's degree in a science, engineering, or other technical field; Minimum four years' experience in support of telepresence equipment; Demonstrated experience with support of telepresence equipment in the at-sea and shipyard environment; Demonstrated experience with RF systems such as satellite and microwave communication systems; Demonstrated experience troubleshooting equipment under field conditions; Demonstrated experience with commissioning of new infrastructure; Demonstrated experience using databases and information systems to maintain accurate and up-to-date records and information; Demonstrated supervisory experience; Demonstrated strong interpersonal and verbal communication skills; Demonstrated proficiency in written communication skills; Demonstrated ability to work cooperatively (particularly in a training/Research & Development environment); and Demonstrated ability to work with a diverse groups/populations.

**PREFERRED:** Master's Degree in a science, engineering, or other technical field.

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