

Marine Technician

Position Details

Position Information

Department	Ship Operations (OAS)
Position Title	Specialist 2-Marine Tech
Job Title	Marine Technician
Appointment Type	Administrative/Professional Faculty
Job Location	Corvallis
Position Appointment Percent	100
Appointment Basis	12
Faculty Status	Regular
Tenure Status	N/A
Pay Method	Salary
Pay Period	1st through the last day of the month
Pay Date	Last working day of the month
Recommended Full-Time Salary Range	Salary is commensurate with skills, education and experience.

Position Summary

Ship Operations is seeking a Marine Technician. This is a full-time (1.0 FTE), 12-month, professional faculty position.

The Marine Technician will serve as a member of the Oregon State University (OSU) Marine Technician group primarily providing technical support on the Research Vessel (R/V) Taani (199-foot research vessel owned by the National Science Foundation and operated by OSU) and the United States Coast Guard (USCG) Arctic Vessels (USCGC Healy, USCGC Polar Star). The Marine Technician will provide technical support for these vessels, both on shore and at sea. The Marine Technician must possess varied skills and the ability to be flexible and able to make decisions independently. The Marine Technician performs tasks critical to the success of scientific programs at sea. The Marine Technician interacts directly with students, technicians, faculty, and classified employees, and often directs the deployment and recovery of sampling equipment and instrumentation from the vessel. While at sea, the Marine Technician also oversees the collecting of underway data from each of the vessels supported. The Marine Technician contributes developmental technical support for the Regional Class Research Vessel (RCRV) program, which is an effort within OSU that is currently designing and constructing the next class of oceangoing research vessel for the National Science Foundation (NSF). OSU's new Research Vessel the 199-foot R/V Taani is currently under construction, and the Marine Technician will participate in the support of the transition to operations.

The primary responsibility of the Marine Technician position is to ensure the data collected from the shared use equipment pool of the R/V Oceanus and the USCGC Healy is of the highest quality, has received proper quality control, and is disseminated to the principal investigators (PIs) for use in peer reviewed publications and presentations. The Marine Technician also handles pre-cruise, at sea, and post-cruise duties for scientific research performed at sea. The ability to become recognized as an advocate of OSU's marine technological operational systems, with exemplary knowledge of current and historical configurations, troubleshooting, and repair on the bench or in the field, is vital to the success of the program. A successful Marine Technician can expect an evolving role with the potential to grow to a higher-level position with increased responsibilities.

The College of Earth, Ocean, and Atmospheric Sciences (CEOAS) is an internationally

recognized leader in the study of the Earth as an integrated system. It operates numerous state-of-the-art laboratories and oceanographic research vessels. The College has an annual budget of more than \$50 million, with support coming from the National Science Foundation, National Oceanic and Atmospheric Administration, National Aeronautics and Space Administration and other federal agencies. It has more than 100 faculty, 200 graduate students and 600 undergraduate students. Graduate programs include M.S. and Ph.D. degrees in Ocean, Earth and Atmospheric Sciences; Geology; and Geography and a M.S. degree in Marine Resource Management. The college has undergraduate programs in Earth Sciences and Environmental Sciences, with several minors and certificate programs.

Summary of Benefits: <https://hr.oregonstate.edu/benefits/prospective-employee>

To calculate our **Total Rewards Package** use this link:

<https://hr.oregonstate.edu/benefits/new-employees/benefits-calculator>

Position Duties

25% – Participates in the advanced planning for upcoming cruises, the preparation and staging of cruise equipment, and the scheduling of equipment requests and usage. Acts as a liaison, coordinating information between scientific party members, Ship Operations staff and crew, USCG, and Marine Technician personnel. Coordinates cruise operations including pre-cruise planning, logistics, loading/offloading of equipment, and at sea scientific activities. Fulfills the post-cruise obligation of data dissemination to scientists and national data archives. Completes post-cruise assessment reports. Drives OSU Motor Pool, personal, and/or rental vehicles to offsite locations in order to complete cruise preparations and operations, and to transport equipment and research staff to and from the research vessel. Launches and retrieves scientific equipment, maintains and repairs equipment, and uses proper sample collection techniques.

Uses power tools, works in the same vicinity where non-restricted hazardous chemicals are housed, works with non-restricted hazardous material or equipment, performs welding or soldering, and performs painting and/or handles paint preparation.

50% – As an independent seagoing technician, assists in the collection of data that will be used in accredited scientific publications. Participates in numerous outreach and engagement opportunities that can take place both on the vessels or other shore-side locations. Oversees the data collection from the shipboard oceanographic equipment, determines the best processes for collection of the data, and provides an initial assessment of the quality of the data. Assesses and re-configures instruments for proper data acquisition. Ensures the safety and effectiveness of over-the-side equipment deployments and recoveries. Maintains the operation of permanent and transitory shared use equipment and computer facilities and troubleshoots/repairs shipboard equipment and systems. Interacts with, and often directs, the activities of students, technicians, faculty, and classified employees when involved in ship-board sampling activities.

25% – Develops and maintains critical documentation and tracks and reports all inspections, maintenance, and changes made to shipboard science or network infrastructure systems and components. Contributes new designs and applies existing designs of instrumentation, adding to the knowledge base of the oceanographic community. Draws conclusions on the development and design of instrumentation used for data collection. Installs, improves, and maintains new and existing shipboard scientific equipment. Maintains, calibrates, upgrades, and repairs shared use and shipboard systems. Performs independent projects and design efforts. Represents Oregon State University, CEOAS, and the Marine Technician Group at annual conferences.

Minimum/Required Qualifications

- Bachelor's degree in Science, Computer Science, Engineering, Oceanography, Electronics, or a closely related field; **OR** Associate's degree in Science, Engineering, Oceanography, Electronics, Marine Technology or a related field, **AND** two years of recent, relevant experience as a Marine Technician or similar position in the military, or at another research university or organization **OR** five years of recent and relevant experience as a Marine Technician or similar position in the military, or at another research university or organization.
- Strong computer skills with at least two years of experience working intimately with computer systems with a focus in network maintenance, satellite communications, shipboard networks, or data collection systems.
- Demonstrated ability to work well within a technical team environment.
- Excellent written and verbal communication skills.
- Proven ability to appropriately scale and apply formal and informal troubleshooting methodologies.
- Demonstrated ability to work independently and make on-the-spot decisions.
- Demonstrated ability to deal with diverse groups of scientists and crew onboard a ship.
- Must possess a valid passport at time of employment.

This position requires driving a university vehicle or a personal vehicle on behalf of the university; therefore, the incumbent must successfully complete a motor vehicle history check,

possess and maintain a current, valid driver's license in their state of residence, be determined to be position qualified and self-report convictions as per University Policy 05-030.

Preferred (Special) Qualifications

- Master's degree in Science, Computer Science, Engineering, Oceanography, Electronics, or a related field.
- Technical training or technical certifications in computers, electronics, or a closely related field.
- Two or more years of experience with computer networks, computer programming (Linux-based, Python, MatLab, C and C++), satellite communications, bandwidth management, cyber security, firewall management and data acquisition systems.
- Working knowledge of AC/DC power systems, fiber optics, WiFi, terminals and electronics testing techniques.
- Proven competence in computer systems administration, experience with virtual machines, network attached storage, cloud based storage and mixed platform operating systems (Unix/Linux, Windows and Macintosh environments).
- Operational experience with Kongsberg acoustic systems including the EM 304 and 2040, EK80, and TOPAS
- Experience with a variety of meteorological sensors including Picarro gas analyzers, Kipp & Zonen and ROSR radiometers, Apollo underway pCO2 system, and Vaisala cloud detection and present weather systems.
- Experience with unmanned vehicle systems. Part 107 FAA certification.
- Demonstrable commitment to promoting and enhancing diversity.

Working Conditions / Work Schedule

- This position is required to work from various research ships in at-sea environments. Willingness and ability to spend up to 120 days per year at sea is required, and the incumbent must not be incapacitated by seasickness.
- The position requires working and residing in confined spaces containing non-restricted hazardous chemicals, working aloft and in or over water, working in construction zones, working directly with non-restricted chemicals in a non-lab setting, working with lift equipment and on elevated surfaces, exposure to high noise levels, and use of a respirator or dust mask.
- The ability to lift/carry/push/pull objects weighing up to 50 pounds is required.
- The ability to operate passenger vehicle, utility cart, forklift, heavy machinery, winches and cranes, boats, and other vehicles is required.
- Some of the work takes place on a moving platform, therefore, safety is of utmost importance. Safety procedures are common to all research ships, and must be followed as explained by the Captain and crew of each ship at the start of and during each voyage.
- This is a full-time position, and may require the ability to work more than forty (40) hours per week while at sea. This position is eligible for overtime compensation at the rate of time-and-one-half for work performed in excess of forty (40) hours in a work week (Sunday-Saturday).

This position requires a clear and unambiguous commitment to compliance of all National Collegiate Athletic Association (NCAA) regulations for Division I (FBS) universities.

No

Posting Detail Information

Posting Number	P06648UF
Number of Vacancies	1
Anticipated Appointment Begin Date	05/31/2023
Anticipated Appointment End Date	
Posting Date	04/02/2023
Full Consideration Date	
Closing Date	05/02/2023

Indicate how you intend to recruit for this search

Competitive / External - open to ALL qualified applicants

Special Instructions to Applicants

When applying you will be required to attach the following electronic documents:

1) A resume/CV; and

2) A cover letter indicating how your qualifications and experience have prepared you for this position.

You will also be required to submit the names of at least three professional references, their e-mail addresses and telephone numbers as part of the application process.

For additional information please contact: Andrew Woogen at Andrew.Woogen@oregonstate.edu or 541-737-4622.

OSU is committed to the health of our local and global community. All employees and students are required to comply with the university's COVID-19 Vaccination Program. Please visit <https://covid.oregonstate.edu/> for additional information about OSU's plans for safety and success, as well as options for compliance with the vaccination program.

OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.

OSU will conduct a review of the National Sex Offender Public website prior to hire.

· Starting salary within the salary range will be commensurate with skills, education, and experience.

This position requires driving a university vehicle or a personal vehicle on behalf of the university; therefore, the incumbent must successfully complete a motor vehicle history check, possess and maintain a current, valid driver's license in their state of residence, be determined to be position qualified and self-report convictions as per University Policy 05-030 et seq. Offers of employment are contingent upon meeting all minimum qualifications including the motor vehicle check requirement.

Supplemental Questions

Required fields are indicated with an asterisk (*).

Documents Needed to Apply

Required Documents

1. Resume
2. Cover Letter

Optional Documents

1. Verification of Veteran Status ONLY (do not upload any other documentation to this field)