Faculty Research Assistant

Position Details

Position Information

Department	Earth, Ocean & Atmo Sci (OAS)
Position Title	Faculty Research Assistant
Job Title	Faculty Research Assistant
Appointment Type	Academic Teaching/Research Faculty
Job Location	Corvallis
Position Appointment Percent	100
Appointment Basis	12
Faculty Status	Regular
Tenure Status	Fixed-Term
Pay Method	Salary
Recommended Full-Time Salary Range	Salary is commensurate with education and experience.
Position Summary	The College of Earth, Ocean, and Atmospheric Sciences invites applications for a full-time 1.00 FTE, 12-month, fixed term, Faculty Research Assistant position. Reappointment is at the discretion of the Dean. Oregon State University (OSU) is a partner on a large scale, multiyear, federally funded project called the Ocean Observatories Initiative (OOI). OOI is in the process of constructing and operating a global, networked infrastructure of science driven sensor systems to measure the physical, chemical, geological, and biological variables in the ocean and seafloor. OSU operates the OOI Endurance Array, which is a network of sensors operating off the Pacific Northwest that will bring a wealth of information to ocean researchers, fisheries, coastal managers, elected officials, and the general public about our shared ocean resources. The Endurance Array includes over 200 instruments mounted on 6 surface moorings, 6 profilers, and 6 gliders deployed off the coast of Oregon and Washington. Ocean measurements from these instruments will be made available in near real time to the world via the web. This Faculty Research Assistant (FRA) will work with a team of researchers, oceanographers, and technicians to assemble, deploy, recover, and refurbish oceanographic platforms and instruments used in the Endurance Array OOI. Work will focus on Endurance Array electronics, including: - Configuration and integration of scientific instruments onto moorings. - Responsibility for scientific instruments and electronics during research cruise deployment and recovery of oceanographic platforms. - Refurbishment of scientific instruments and mooring electronics. This FRA will actively participate in research related field operations, including equipment operation, maintenance, and installation cruises. The FRA ensures the data collected from the Endurance Array meets standards of the highest quality, has received proper quality control, and is disseminated to the principle investigators (PIs) for use in peer reviewed publications and presentations. The College of Earth, Ocean, and Atmospheric Sciences is an internationally recognized leader in the study of the Earth as an integrated system. It operates numerous state-of-the art laboratories and three oceanographic research vessels, the 177-foot ocean-going Oceanus, the 84-foot coastal research vessel Pacific Storm, and the 54-foot coastal research vessel Elakha. 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 Master’s and PhD degrees in Ocean, Earth and Atmospheric Sciences; Geology; and Geography and a Master’s degree in Marine Resource Management. The college has

	undergraduate programs in Earth Sciences and Environmental Sciences, with several minors and certificate programs.
Position Duties	45% – Electrically Assemble Moorings: Perform top to bottom electrical assembly and testing of buoys, mooring risers, and anchor recovery systems that will be used for scientific research. Test, integrate, update, troubleshoot, and refurbish custom built platform power, control, and communications electronics on oceanographic research platforms such as buoys, mooring risers, benthic packages, and profilers. Draw conclusions on the development and design of instrumentation used for data collection. Update and troubleshoot shore side software that communicates with moorings. Develop procedures for the tasks above, ensuring proper sample collection techniques, and ensuring the proper quality and format of data to be incorporated into published works. 25% – Instrument-Related Tasks and Refurbishment: Prepare scientific research instruments for remote deployments using vendor software and/or Linux command line utilities (e.g. minicom). Configure and program instruments, update vendor software on instruments, maintain instrument calibrations, plot scientific data to assess field performance of instruments, plot engineering data to assess performance of mooring systems, and refurbish instruments after recovery. Disassemble and store electrical components, perform local refurbishment tasks, oversee the transport and refurbishment of hardware and instruments at vendors, and track inventory property including electrical hardware and instruments. Develop procedures for the tasks above, ensuring proper sample collection techniques, and ensuring the proper quality and format of data to be incorporated into published works. 15% – Deployment and Recovery: Participate in oceanographic research cruises to deploy and recover platforms and instruments. Lead the electrical integration and testing of moorings on the ship, perform deck operations during deployment and recovery, and demobilize after recovery. Fulfill the post-cruise obligation of data dissemination to scientists and national data archives. Complete post-cruise assessments. 15% – Write technical reports describing integration and test of observatory elements, oceanographic cruises and data quality control procedures. Plot and analyze engineering and scientific data using Python and Linux command line utilities. Prepare reports of observatory research for submission to National Science Foundation data centers. Contribute to peer-reviewed publications and to presentations at scientific conferences. Drive personal, university-owned, rental and/or OSU Motor Pool vehicles to transport equipment and people to research sites.
Minimum/Required Qualifications	Bachelor’s degree in oceanography, science, computer science, engineering, or related field. Experience with software interfaces and electronics of oceanographic instrumentation or equipment. Experience or ability to run and update Python, Perl, and Matlab, and Linux shell scripts. Ability to read electrical and electronics schematics. Demonstrated written, verbal, and presentation communication skills. Must obtain forklift certification within one month of hire. 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 OSU Standard 576-056-0000 et seq.
Preferred (Special) Qualifications	Master’s degree in oceanography, physics, computer science, engineering, or related field. Previous research experience in oceanography or related field. At least two years of experience preparing, deploying, recovering, and maintaining oceanographic research instrumentation. Demonstrated experience in seagoing scientific operations including over-the-side operations. Experience with formal design and documentation procedures and processes in large construction projects. Expertise in hands on electronics, electrical, and software troubleshooting and problems resolution. A demonstrable commitment to promoting and enhancing diversity.
Working Conditions / Work Schedule	This position is required to work on various research ships in oceanic environments for up to 60 days per year. During this time, the incumbent will be required to work and reside in confined spaces, and to work in or over water. This position is required to work directly with with non-restricted chemicals in a non-lab setting, and to work in the vicinity of hazardous materials. The ability to lift/carry/push/pull objects weighing up to 50 pounds is required. The ability to occasionally operate passenger vehicle, utility cart, forklift, heavy machinery, winches and cranes, and other vehicles is required. This position requires working with lift equipment and on elevated surfaces, occasional exposure to high noise levels, and occasional use of respirator or dust mask. 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 the incumbent is required to follow

	these procedures as explained by the Captain and crew of each ship at the start of and during each voyage.
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	P00800UF
Number of Vacancies	1
Anticipated Appointment Begin Date	12/28/2016
Anticipated Appointment End Date	
Posting Date	10/29/2016
Full Consideration Date	11/11/2016
Closing Date	12/15/2016
Indicate how you intend to recruit for this search	Competitive / External - open to ALL qualified applicants
Special Instructions to Applicants	To ensure full consideration, applications must be received by November 11, 2016. Applications will continue to be accepted after the full consideration date, until a sufficient applicant pool has been achieved or the position is filled. The closing date is subject to change without notice 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: Jonathan Fram, 541-737-0011, jfram@coas.oregonstate.edu 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 OSU STANDARD 576-056-0000 et seq. Offers of employment are contingent upon meeting all minimum qualifications including the Motor Vehicle Check Requirement. 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.

Supplemental Questions

Required fields are indicated with an asterisk (*).

Documents Needed to Apply

Required Documents

1. Cover Letter
2. Curriculum Vitae

Optional Documents