Job Description

Cabled Observatory Data Manager

Compensation Commensurate with experience

Posted Date 07-17-2020

Closing Date 08-15-2020

FTE 100.0%

Job Summary

Regular, Full-Time, RCUH Non-Civil Service position with the School of Ocean and Earth Science and Technology (SOEST), Department of Oceanography and Resources Engineering (ORE), located in Honolulu, Hawai'i. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

MONTHLY SALARY: Commensurate with qualifications.

DUTIES: Provides oversight and manages end-to-end data flow for the federally funded projects ALOHA Cabled Observatory (ACO) and Kilo Nalu Observatory (KNO) data collection, processing, and network administration tasks. This includes working on hardware and software (e.g., instruments, firewalls, etc.) that enables data acquisition from instruments, development of drivers, and networking of instruments and data systems. Maintains complete documentation of all work done, including documentation of software, tasks, and procedures. Runs programs to do spectral analysis on acoustics, time-series filtering, and various frequency/correlation analyses. Develops and maintains project website services integrated with scientific databases. Develops and implements tools, including web-based data management services, to provide access to dynamic research datasets and content. Dataset analysis activities include making plots (Matlab and Python), editing/adding metadata, etc. Maintains and updates, as necessary, data access services including web pages, ftp, and web-based catalog services (WCS) sites. Maintains and updates project websites and Wikis, and improves their appearance and accessibility. Works with Principal Investigator (PI) on data analysis (including quality assurance/quality control), report writing, and interpretation of results. Contributes as necessary to original writings and graphics to data reports and other publications. Troubleshoots computer and software issues as needed. Independently resolves issues related to computer/networking equipment. Implements security and safe practices for computers and servers. Works with PI and Research Computing Facility (RCF) to manage computer system and data disaster recovery as necessary. Assists with loading/offloading equipment (e.g., personal computer workstations and monitors) and transporting replacement gear offline as needed. Purchases equipment (up to $2,500). Participates in annual research cruises.

PRIMARY QUALIFICATIONS: EDUCATION/TRAINING: Bachelor's Degree from an accredited four (4) year college or university in Computer Science or a related field. EXPERIENCE: One to three (1-3) years of experience with Linux server-level administration; processing, plotting, and analyzing data; implementing complex algorithms in Matlab, Python, or similar algorithmic language; experience using Apache, Tomcat, or similar web-based data service. Experience must include at least one (1) year working with network monitoring and maintenance (including maintenance and trouble-shooting network outages, firewall maintenance, and wireless and wired protocols). ABIL/KNOW/SKILLS: Working knowledge of MySQL, Java, HTML/XHTML and CSS, Perl, Python, or other script language. Working knowledge of Matlab software and Windows server-level administration. Demonstrated knowledge of Windows operating systems on personal computers. Computer networking knowledge. General knowledge of web page development, design, and maintenance using Dreamweaver or similar software. Knowledge of maintaining relational databases using SQL. Knowledge of computer security protocols and best practices. Demonstrated programming ability using Matlab in a UNIX/Linux system environment. Demonstrated ability to organize and catalog databases and generate reports using MySQL. Ability to web design via Javascript or HTML/XHTML/CSS. Ability to interact and work efficiently with others. PHYSICAL/MEDICAL REQUIREMENTS: Ability to lift and carry at least twenty (20) pounds. As a condition of employment, employee will be subject to all applicable RCUH policies and procedures and, as applicable, subject to University of Hawai'i and/or business entity's policies and procedures. Violation of RCUH's, UH's, or business entity's policies and/or procedures or applicable State or Federal laws and/or regulations may lead to disciplinary action (including, but not limited to possible termination of employment, personal fines, civil and/or criminal penalties, etc.).

SECONDARY QUALIFICATIONS: Knowledge of NetCDF as data model with CF conventions. Experience working with data repositories, such as OceanSITES. Experience working with SIMS/DVSS, DataTurbine, or OpenNDAP. Experience with real-time data acquisition and working with large datasets, including archival. Knowledge of catalog services for the web. Experience modifying Wikis. Working knowledge of ACO and KNO activities and procedures.

INQUIRIES: Dr. Bruce Howe 469-0553 (Oahu).

APPLICATION REQUIREMENTS: Please go to www.rcuh.com and click on "Job Postings." You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Supervisory References, 4) Copy of Degree(s)/Transcript(s)/Certificate(s). All online applications must be submitted/received by the closing date (11:59 PM Hawai'i Standard Time/RCUH receipt time) as stated on the job posting. If you do not have access to our system and the closing date is imminent, you may send additional documents to rcuh_employment@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-7252 or (808)956-0872.

CLOSING DATE: August 15, 2020 or until filled. Applications received after this deadline may be considered only if the position is not filled or up to the date a selection has been approved by the RCUH (whichever comes first).

RCUH's mission is to support and enhance research, development and training in Hawai'i, with a focus on the University of Hawai'i.

Equal Opportunities Employer – Minorities/Women/Disability/Veteran.