Job Description

Job Title: JIMAR Data Management Specialist
Job ID: 12248
Project Name: JIMAR
Full/Part Time: Full-Time
Regular/Temporary: Regular

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Regular, Full-Time, RCUH Non-Civil Service position with the School of Ocean and Earth Science and Technology (SOEST), Joint Institute for Marine & Atmospheric Research (JIMAR), located at the National Marine Fisheries Service (NMFS), Pacific Islands Fisheries Science Center (PIFSC) in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

MINIMUM MONTHLY SALARY: $3,416/Mon.

DUTIES: Provides advanced programming and analytical support for coral reef ecosystem monitoring and research, fisheries management, fisheries stock assessment, and oceanographic research. Results from these activities will be published formally and via the Internet. Designs, develops, tests, implements, and documents procedures, computer programs, and interfaces which ensure the integrity, accessibility, timeliness, and usability of the research data generated or collected by the project. Designs, develops, tests, implements, and documents database management systems for the Division’s datasets and computer programs and scripts to produce user-friendly graphical interfaces for relational databases. Develops scalable tools and database management applications for the collection, capture, manipulation, integration, maintenance, and dissemination of data, in both raw and summarized form, for internal and public use via a local area network and the Internet utilizing a variety of programming tools and skills.

PRIMARY QUALIFICATIONS: EDUCATION: Bachelor’s Degree from an accredited four (4) year college or university in Computer, Physical, or Biological Science; or Mathematics; or Statistics; or Engineering. EXPERIENCE: One to three (1-3) years of professional level work experience utilizing state of the art programming languages, scripts and editors in both the UNIX/Linux and personal computer environments. One to three (1-3) years of professional level work experience in the design, development and support of relational database applications with client/server databases, including enterprise-wide database management systems, and web applications and graphical user interfaces for relational databases. Operational experience with creating and integrating external modules within an application for data analysis and visualization. Operational experience with developing geospatial map-serving applications. Operational experience in the primary data management functional areas of data collection, data capture, data processing, data maintenance, data archival, and data dissemination. Operational experience with metadata procedures, data integration, data manipulation, data parsing, and data auditing. Operational experience with managing large scientific data sets including geographic and time series data. ABIL/KNOW/SKILLS: Significant working knowledge of relational database management software such as ORACLE, MySQL, or MS Access. Significant working knowledge of dynamic Web tools such as PHP, Perl, CGI and HTML. Working knowledge of C/C++. Demonstrated skills in providing advanced scientific programming support in the Java, Perl, shell script, and SQL languages, and database form and report generators. Ability to develop database applications and web applications in LINUX/UNIX and PC environments. Ability to integrate both raw and summarized data in client/server databases with statistical, GIS and visualization software/tools. Ability to translate end-user requirements into tangible design specifications. Ability to perform project management functions, which includes independently planning, organizing, and implementing projects to meet programmatic requirements and objectives within schedule, setting
priorities and coordinating multiple tasks with frequent and tight deadlines. Ability to communicate effectively both orally and in writing. **Post Offer Employment Requirement:** Must meet US Department of Commerce, National Oceanic and Atmospheric Administration security requirements for working in a federal facility which includes being fingerprinted and having a federal background check performed.

**PHYSICAL/MEDICAL REQUIREMENTS:** Ability to install and configure computer-related equipment and instrumentation in ocean-going research vessels. (i.e. Comfortable with working in small and confined areas, able to lift 35 lbs, able to negotiate step ladders, narrow ship passageways and access ports.) Must be able to obtain NOAA Medical Clearance for embarking/working on NOAA research vessels or other appropriate vessels which includes providing proof of required immunizations and/or obtaining the necessary immunizations as required by NOAA Aviation and Marine Operations.

**SECONDARY QUALIFICATIONS:** Experience with image catalogs and spatial data objects. Experience developing and supporting GIS applications. Experience with Generic Mapping Tool (GMT) software for mapping and analytical data graphing. Experience with Python, Avenue, or VBA programming language. Experience with advanced software tools for statistical analysis and data visualization. Experience using routine statistical procedures to perform data analyses, including interpretation of results. Understanding of satellite telemetry and remote sensing technologies and data issues. Familiarity with the data management needs and requirements of ocean related research and marine ecosystem studies. Desire to contribute to the conservation and sustainable management of living marine resources and protected species.

**APPLICATION REQUIREMENTS:** The preferred method of applying for a job is through our on-line application process. Please go to www.rcuh.com, click on “Employment” and navigate to “Job Announcements/Apply for a Job.” However, if you do not have access to the Internet, you may apply by submitting resume; cover letter including Recruitment ID#, referral source, narrative of your qualifications for position and salary history; names, phone numbers and addresses of three supervisory references and copy of degree(s)/transcripts/certificate(s) to qualify for position by fax (808) 956-5022, mail, or hand-deliver to: Director of Human Resources, Research Corporation of the University of Hawaii, 2530 Dole Street, Sakamaki Hall D-100, Honolulu, HI 96822 before the closing date. Online applications and faxed documents must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time). Mailed documents must be postmarked by the closing date. Hand-delivered documents must be received by our HR office by 4 P.M. Hawaii Standard Time/RCUH receipt time. If you have questions on the application process and/or need assistance, please call (808)956-3100.

EEO/AA Employer.

Please apply before **06/06/2012**