

Job Description

Job Title: Environmental Systems Engineer
Job ID: 29471
Project Name: UHH/EPSCR
Full/Part Time: Full-Time
Regular/Temporary: Regular

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Job Summary

Regular, Full-Time, RCUH Non-Civil Service position with the Experimental Program to Stimulate Competitive Research (EPSCoR), Pacific Biosciences Research Center (PBRC), Center for Conservation Research & Training (CCRT), located on the island of Oahu. Position will be located on Hawaii Island. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

MINIMUM MONTHLY SALARY: \$3,620/Mon.

DUTIES: Serves as lead engineer for the environmental monitoring component of UH Manoa's NSF EPSCoR Track 2 Program, "Pacific Area Climate Monitoring and Analysis Network (PACMAN) - Cyberinfrastructure for Discovering Climate Change Impacts on Water Resources across Alaska and the Hawaiian Islands" which is a collaborative project with the University of Alaska Fairbanks. Work will involve the development of the environmental cyberinfrastructure capability required to conduct research on the impacts of climate change scenarios on water resource condition spatiotemporally from global-to-regional-to local scales. Responsible for developing robust, sensor-based automated data systems for environmental monitoring applications in Hawaiian mountain-to-sea environments ensuring that data gathered from disparate and heterogeneous sources are automatically acquired, integrated, and organized in database servers. Collaborate with Internet-based Portal Developers in the Project to establish robust procedures for user-access to sensor data and analyses tools. Establish rigorous Quality Assurance/Quality Control (QA/QC) procedures for all sensor- and hardware-data systems used in the Project. Establish and coordinates education/workforce development efforts with University of Hawaii engineering affiliates system-wide. Conducts collaborative and innovative research in the application of engineering perspectives to environmental cyberinfrastructure, publishing results in appropriate journals and conference proceedings. Participates in the advancement of the University of Hawaii NSF EPSCoR's emerging 'cyberenvironment'.

PRIMARY QUALIFICATIONS: **EDUCATION:** Bachelor's Degree from an accredited four (4) year college or university in Electrical Engineering or related field. **EXPERIENCE:** Three to five (3-5) years of experience in Electrical Engineering. At least one (1) year of experience in application of sensors, radio frequency (RF)-based transmissions, antenna design, and hardware fabrication. At least one (1) year of experience in the development and use of software and/or hardware systems; generating and maintaining project specific documentation; project planning and meeting schedules of deliverables; maintaining progress reports; and leading a small engineering team. **ABIL/KNOW/SKILLS:** Thorough knowledge of the principles and practices of Electrical Engineering, particularly in the areas of computer hardware and software, power, and communications. Ability to design complex systems requiring tight integration of software and hardware. Ability to design electronic sensor systems subject to stringent power, volume, and budgetary constraints. Ability to produce engineering prototypes and production models. Ability to implement design solutions related to development and deployment of environmental sensor-based monitoring systems. Ability to troubleshoot sensor system problems in the field. **PHYSICAL/MEDICAL REQUIREMENTS:** Able to lift and carry at least forty (40)

pounds and hike at least three (3) miles in rugged Hawaiian terrain. Able to swim.

SECONDARY QUALIFICATIONS: Master's Degree from an accredited college or university in Electrical Engineering or related field. Demonstrated experience as a Lead Engineer and/or Systems Engineer for commercial and/or government projects where software and hardware applications were integrated to provide an enhanced capability or product line. Demonstrated multi-year experience in leading an engineering, technician, assembly, and/or manufacturing team, including Project Engineering tasks such as managing schedules and budgets. Demonstrated knowledge and experience working with hardware/software products developed by IntelSense Technologies, Inc. for environmental monitoring applications. Demonstrated experience with publication in appropriate journals.

INQUIRIES: Kenneth Kaneshiro 956-6739 (Oahu).

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 or mail 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. If you have questions on the application process and/or need assistance, please call (808)956-3100.

EEO/AA Employer.

Please apply before: 11/05/2009

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