Job Title: ISLA Field Systems Engineer & Analyst
Job ID: 27055
Project Name: SOEST
Full/Part Time: Full-Time
Regular/Temporary: Regular
Closing Date: 02/13/2007

Job Summary

(2) Regular, Full-Time, RCUH Non-Civil Service positions with the Infrasound Laboratory (ISLA) located in Kailua-Kona, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds.

Minimum Monthly Salary:
$3,291.00.

Duties:
- Provides technical support for permanent and portable field monitoring stations.
- Responsible for logistics, planning, design, construction, inspection, production, application, installation, maintenance, operation, and standardization of facilities, structures, systems, processes, equipment, devices, software, or materials associated with recording stations.
- Assists the Principal Investigator by carrying out mechanical, electrical, electronic and telecommunications design, operation and maintenance.
- Responsible for data analysis support and data quality assessment.
- Assists the Principal Investigator with programming, data analysis, interpretation, writing of papers, presentation of results, planning of future projects, and maintaining computers and databases used by laboratory staff.

Minimum Qualifications:

Education:
- Bachelors Degree from an accredited four (4) year college or university in Physics, Geophysics, Engineering Sciences, Applied Science, or related field; or equivalent training and experience.

Experience:
- Two to four (2-4) years of related experience in industry, military, or academic work requiring extensive knowledge of standard guides, precedents, methods and techniques for field data acquisition systems.
- Three to five (3-5) years of experience in digital signal processing and waveform analysis.

Abil/Know/Skills:
- Expertise in communication, multiplexing, digital telemetry, photovoltaic power systems, electronic design and repair, circuit board diagnosis, and digital signal processing.
- Knowledge of the principles, practices, methods, and techniques of other branches of engineering and other organizational units as they relate to the area of assignment.
Expertise in real-time acquisition, processing, and archiving of digital waveform and image data.
Knowledge of time-series, spectral analysis, digital signal processing, array processing, and automatic signal classification algorithms. Working knowledge of MATLAB and UNIX.
Knowledge of GMT or similar mapping software.
Ability to perform independent scientific research and to present results in papers and presentations.
Ability to program two or more of the following languages: MATLAB, Java, Perl, C, or FORTRAN.
Proficiency with waveform analysis software, such as Antelope and Matseis, and image processing tools.
Ability to help administer and maintain computer and network systems.
U.S. security clearance required.

Physical/Medical Requirements:
Able to lift and carry fifty (50) pounds of equipment.

Desirable Qualifications:
Masters Degree from an accredited college or university.
Proven experience in designing, installing, and maintaining robust communication and power systems.
Experience in seismic or acoustic data acquisition systems and time series analysis.
Knowledge of Earthworm and database administration.
Possess the ability to plan and organize large-scale assignments containing many problems and variables.
Ability to develop new lines of approach and new or improved techniques in engineering and signal processing.

Inquiries:
Milton Garces 327-6206 (Hawaii).

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. EEO/AA Employer.