**Job Description**

**Job Title:** Bioenergy Laboratory Technician  
**Job ID:** 12266  
**Project Name:** CTAHR/ADAP-PADO  
**Full/Part Time:** Part-Time  
**Regular/Temporary:** Regular

Regular, Part-Time (50% FTE), RCUH Non-Civil Service position with the University of Hawaii at Manoa’s (UHM) College of Tropical Agriculture and Human Resources (CTAHR), Department of Natural Resources and Environmental Management (NREM), and Environmental Impact of Bioenergy Feedstock Production project, located in Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

**MINIMUM MONTHLY SALARY:** $1,160/Mon. (@ 50 % FTE)

**DUTIES:** Provides technical support to the Principal Investigator for laboratory analyses associated with the measurement of plant tissue and soil biopolymer composition, soil carbon stock, greenhouse gas flux from experimental field sites located on Hawaiian Commercial and Sugar (HC&S) land on Maui, Hawaii. Assists task leader in: 1) Quantification of lignin/cutin/suberin-derived plant biopolymers as they relate to biofuel conversion efficiency and root decomposition; 2) Monitoring changes in soil carbon stock and greenhouse gas flux before during and after the growing cycle of feedstock crops for bioenergy production. Primary duties include processing and analysis of plant tissue, soil, and gas samples as well as interpretation and presentation of data. Plant biopolymer analysis will be done with Shimadzu GC/MS; gas samples will be analyzed using a Shimadzu Greenhouse Gas (GHG) Analyzer for the simultaneous measurement of CO2, N2O, and CH4. Other primary duties are to assist in management of the Soil Ecology and Biogeochemistry Laboratory, including sample storage, supply ordering, and equipment scheduling, and to facilitate the collaboration between UHM researchers, U.S. Department of Agriculture – Agricultural Research Service (USDA-ARS) scientists, and HC&S Resource Managers who are working together on the project to determine the environmental impact of bioenergy feedstock production on HC&S lands.

**PRIMARY QUALIFICATIONS:**  
**EDUCATION:** Bachelor’s Degree from an accredited four (4) year college or university in Engineering, Chemistry, or other similar discipline.  
**EXPERIENCE:** At least one (1) year of laboratory experience, including purchasing and researching equipment.  
**ABIL/KNOW/SKILLS:** Knowledge of principles of data collection and analysis. Operation of Shimadzu GHG Analyzer (GC) and GC/MS. Must possess a valid driver’s license.  
**PHYSICAL/MEDICAL REQUIREMENTS:** Able to lift and carry thirty (30) pounds. Ability to hike in rugged terrain.

**SECONDARY QUALIFICATIONS:** At least one (1) year of field experience and soil and gas sampling. Experience with CuO oxidation extraction protocol. Knowledge of design and implementation of field gas sampling methods, soil and gas sample handling and processing.

**INQUIRIES:** Susan Crow 956-8149 (Oahu).

**APPLICATION REQUIREMENTS:** Please go to www.rcuh.com, click on “Employment”; select “Apply” and navigate to “See Job Announcements and/or Apply for a Job.” You must submit the following documents online to be considered for the position: 1) Cover Letter, 2) Resume, 3) Salary History, 4) Supervisory References, 5) Copy of Degree(s)/Transcript(s)/Certificate(s) All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii 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 rcuhr@rcuh.com. If you have questions on the application process and/or need assistance, please call (808)956-3100.

EEO/AA Employer.

**Please apply before** 05/26/2012