

San José State University Research Foundation

Position: Laboratory Research Technician

DEPARTMENT: Moss Landing Marine Labs

IMMEDIATE SUPERVISOR: Director of MLML

POSTING DATE: February 16, 2021

CLOSING DATE: Open Until Filled

SALARY: \$33.00 per hour

EXEMPT STATUS: Full-time, Non-Exempt, Benefited

GENERAL NATURE OF POSITION

The candidate will work with a variety of MLML researchers, faculty, and operations staff to support and improve the data collection, compilation, and analysis capabilities of Moss Landing Marine Labs.

ESSENTIAL DUTIES & RESPONSIBILITIES

1. Support the design, fabrication, deployment, and maintenance of a real-time network of biogeochemical sensors in the field, lab, shipboard, and aquarium/aquaculture facilities.
2. Maintain sensor calibrations, including cleaning, deployment, and working with the manufacturers.
3. Compile generated data, design and curate databases and maintain and improve websites.
4. Troubleshoot technical issues that arise within the monitoring networks, databases, and websites.
5. Develop and expand monitoring networks and sensor arrays when grant funds allow.
6. Assist with the construction and maintenance of aquaculture and aquarium facilities (tanks, pipes, pumps, filters) and field-based research projects, including shipboard technical support.
7. Assist with data analysis and reporting.

INTERPERSONAL CONTACTS

Reports to the Director of MLML

SUPERVISORY RESPONSIBILITIES

Lab Research Technician has supervisory responsibilities over student research assistants and interns

QUALIFICATIONS

Education and Experience

- Minimum Bachelor's degree in a technical field: e.g. Engineering, Science, or IT
- Minimum 3 years' experience in related field

Knowledge, Skills, Abilities Required

- Experience with environmental sensors (Sea-Bird, Campbell, and YSI/Sontek), including maintenance, calibration, installation, and data recovery and visualization.
- Computer programming: Linux, Python, PHP, javascript, Apache and SQL/MySQL.
Bonus: CRBasic & LabView.
- Understanding of telemetry networks: cellular, Ethernet, WiFi.
- Understanding of simple electrical circuits, UART/RS-232, and analog systems.
- Strong problem solving abilities of technical issues (IT, electrical, hardware).
- Ability to work independently, while seeking guidance from others in the lab.
- Experience with data analysis and statistics.
- Extensive experience with Windows 10, including the Command Prompt, Task Scheduler, and Windows Services Manager.
- Full proficiency with Microsoft Office Suite. Ability to manage data in Microsoft Excel, MySQL, and other database formats.
- Working knowledge of ArcGIS.
- Analytical laboratory experience.
- Ability to work independently and as the field team lead.
- Capable of working at sea and in the field on various research projects, and especially with CTD and on-board sensors systems.
- Capable of working on seawater systems, including plumbing, construction of tank supports, maintenance of filters and seawater systems, and care of pumps.

Physical Requirements

- Ability to work outside in inclement weather conditions when necessary.
- Ability to walk a mile while carrying up to 30 pounds of equipment and traverse over rough terrain to remote field sites.
- Capable of working on sea-going research vessels

NOTE: This position description intends to describe the general nature and level of work being performed by people assigned to this job. It is not intended to include all duties and responsibilities. The order in which duties and responsibilities are listed is not significant.

BENEFITS

The comprehensive benefit package includes:

- a) Ten company subsidized CalPERS health insurance plans to choose from (employee contributions differ according to plan and level of coverage).
- b) Employer paid dental and vision for both employee and eligible dependents.
- c) Life, AD&D, LTD with supplemental coverage opportunities.
- d) 13 paid federal & state holidays.
- e) Retirement Plan: 403 (b) employee contribution plan component and a 403 (b) employer contribution component, which vests immediately.
- f) Vacation hours accruals and separate sick hours accumulations.
- g) Employee discounts.
- h) Paid training and professional development conferences.

SJSURF provides excellent benefits package to benefited employees. Please visit [Benefits & Compensation page](#) to get more details.

APPLICATION PROCEDURE

To apply for this position, an applicant must submit a formal application for employment, as well as a resume and a cover letter. The applicant may do this via e-mail. The formal employment application is located on the SJSURF website on the [Forms page](#). **Due to the COVID-19 health crisis, all candidates must submit their application materials to foundation-jobs@sjsu.edu.**

Please address your formal application, your resume, and your letter of interest directly to:

San José State University Research Foundation
Attn: HR/Job Code: **LABRESTEC**
E-mail: Foundation-jobs@sjsu.edu

A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the SJSURF. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current SJSURF employees who apply for the position.

REASONABLE ACCOMODATION

The San José State University Research Foundation (SJSURF) is committed to providing access, equal opportunity and reasonable accommodation for individuals with physical or mental disabilities in the employment, recruitment, examination, hiring and interviewing processes. If you are a job seeker with a physical or mental disability and require a reasonable accommodation to search, apply, or interview for a job opening or otherwise need a reasonable accommodation during the application and hiring process, please contact us at foundation-jobs@sjsu.edu. In the email message, please indicate your full name, phone number and the type of assistance required. You must not reveal the underlying medical reason for your needed reasonable accommodation or otherwise disclose confidential medical information.

ABOUT THE SJSU RESEARCH FOUNDATION

SJSURF employment is separate and distinct from San José State University or state of California employment. SJSURF employees are not employees of SJSU or of the state of California. SJSURF is a non-profit auxiliary of San José State University. SJSURF is totally self-supported. The majority of the organization's funding comes from the federal government, and other public and private entities. With annual revenues totaling over \$65 million, programs managed through SJSURF cover a rich diversity of applied research, public services, and educational related activities.

SJSURF is an equal opportunity employer and does not discriminate on the basis of race, color, creed, gender, religion, marital status, registered domestic partner status, age, national origin, ancestry, physical or mental disability, medical condition, sex, genetic information, sexual orientation, military and veteran status or any other consideration made unlawful by federal, state, or local laws. It also prohibits unlawful discrimination based on the perception that anyone has any of those characteristics, or is associated with a person who has or is perceived as having any of those characteristics.
