San Jose State University Research Foundation

Position: Research Associate

DEPARTMENT: Moss Landing Marine Laboratories
IMMEDIATE SUPERVISOR: Director, MLML
POSTING DATE: March 4, 2019
CLOSING DATE: March 11, 2019
SALARY RANGE: $84,000 to $96,000
EXEMPT STATUS: Exempt

APPOINTMENT: This position is for 10 months, fulltime, and is a non-academic appointment with the San Jose State University Research Foundation. Continuation of the position is dependent upon the availability of funding/grant and annual renewal of the contract with Jet Propulsion Laboratories (JPL).

GENERAL NATURE OF POSITION:

Moss Landing Marine Laboratories (MLML) administers the Master of Science in marine science program for California State Universities in northern and central California, and is dedicated to the pursuit of excellence in both education and research. An outfitted marine operations department, active research diving program and state of the art equipment allow for cutting edge research in a wide variety of disciplines including: marine ecology; the biology of marine plants, invertebrates, fishes, turtles, birds and mammals; oceanography and marine geology; chemistry and biogeochemistry. MLML is known for a hands-on, field-oriented approach which places our students, faculty, researchers and staff at the frontiers of marine science worldwide where discoveries are being made.

Research associate in modeling physical and biogeochemical interactions in the land-sea continuum. Will conduct research on topics of modeling air-sea carbon exchange and biogeochemical river runoff, and will produce research reports and publications.

ESSENTIAL DUTIES & RESPONSIBILITIES:

1. Conducts research on topics of modeling air-sea carbon exchange in the land-sea continuum.
2. Develops numerical biogeochemical ocean model solutions.
3. Responsible for processing and interpreting physical and biogeochemical ocean observations.
4. Conducts numerical ocean modeling in a high performance computing environments.
5. Other duties and tasks as assigned.

INTERPERSONAL CONTACTS:

1. Reports to the Director, MLML.
2. The incumbent will work collaboratively with professors and graduate students and Moss Landing Marine Laboratories, primarily, and other researchers involved with this collaborative effort.
QUALIFICATIONS:

1. **Education**
   - Ph D in earth sciences is required.

2. **Experience**
   - Minimum of 5 years’ experience with the MITgcm model and 1 year experience with the ECCO-Darwin model including model code development is required.
   - 5 years of experience in data processing software such as MATLAB is required.
   - At least one year of postdoctoral experience on topics of modeling air-sea carbon exchange is required.

3. **Knowledge, Skills, Abilities required**
   - Excellent writing skills; grammar, spelling and punctuation.
   - Ability to use initiative and sound independent judgment within established guidelines.
   - Ability to organize work, set priorities and meet critical deadlines with little supervision.
   - Ability to work effectively and maintain cooperative working relationships with others.
   - Broad knowledge of coastal physical oceanography and air-sea carbon exchange.
   - Extensive experience in data processing, especially those associated with in-situ ocean observations.
   - Extensive experience in data processing software such as MATLAB.

4. **Physical Requirement**
   - Must be able to sit or stand to operate a PC, including mouse and keyboard.
   - Must be able to walk or sit for continuous periods throughout the day, with appropriate rest periods taken.

5. **Complexity of Duties**
   - Job duties are highly complex and include and involve analyzing and modeling the results, writing up and presenting findings, working with a diverse team of researchers.

6. **BENEFITS:**
   - **The comprehensive benefit package includes:**
     a) Nine Health Insurance Plans to choose from
     b) Free dental and vision for employee and family
     c) Paid Federal & State Holidays
     d) Retirement Plan: 403 (b) employee contribution plan component and a 403 (b) employer contribution component
     e) Vacation and separate sick plans
     f) Employee Discounts
     g) Paid Training and Conferences
     h) Increases based on merit (performance)

SUPERVISORY RESPONSIBILITIES:
None.

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.
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 or by regular mail. The formal employment application is located at
http://www.sjsu.edu/researchfoundation/open/Employment%20Application%20Form_new.pdf

It may also be obtained from the Research Foundation through its web site at http://www.sjsu.edu/researchfoundation/open/index.html.

An applicant may also apply in person by visiting the Research Foundation, located at 210 North 4th Street, 4th Floor, San Jose, CA (corner of St. James and North 4th Streets). Please address your formal application, your resume and your letter of interest directly to:

San Jose State University Research Foundation  
Attn: HR/Job Code MLRA  
210 North 4th Street  
San Jose, CA 95112  
E-mail: foundation-jobs@sjsu.edu

Reasonable Accommodation:

The San Jose State Research Foundation 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. You may also call (408) 924-1400 from 8:00am to 5:00pm (PST), Monday through Friday, excluding holidays, to get assistance.

The Research Foundation provides excellent benefits package to benefited employees. Please visit http://www.sjsu.edu/researchfoundation/humanresources/healthbenefits/index.html to get more details.

Research Foundation employment is separate and distinct from San Jose State University or State of California employment. Research Foundation employees are not employees of either SJSU or of the state of California.

The San Jose State University Research Foundation (SJSURF) is a non-profit auxiliary of San Jose 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.

SAN JOSE STATE UNIVERSITY RESEARCH FOUNDATION 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.

The SJSURF has implemented California State University Executive Order 1083 (http://www.calstate.edu/eo/EO-1083.pdf). By policy, all SJSURF employees are mandated reporters for suspected child abuse or neglect and are expected to undergo formal training in accordance with the directives of the Executive Order.
The SJSURF has also implemented California State University Policy Memorandum HR 2015 – 08 (http://www.calstate.edu/HRAdm/pdf2015/HR2015-08.pdf).

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.