Position: Project Director

DEPARTMENT: Moss Landing Marine Laboratories

IMMEDIATE SUPERVISOR: Executive Director of MLML

POSTING DATE: August 6, 2021

CLOSING DATE: Open until filled

SALARY: $80,000 – $140,000 per year

EXEMPT STATUS: Full-Time, Exempt (Hourly), Benefited. This position is an 8 month non-academic appointment with the SJSU Research Foundation. Continuation of this position is dependent upon the availability of funding and the acquisition of grants.

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. The project director in physical and biogeochemical ocean state estimation research and development. Will develop and direct projects related to: ocean state estimation, air-sea carbon exchange, trajectory of the ocean carbon sink, impact of terrestrial freshwater and biogeochemical river runoff, high-latitude bio-physical interactions, and ocean-ice interactions in Greenland and Antarctica, along with writing research reports and publications.

ESSENTIAL DUTIES & RESPONSIBILITIES
1. Develop and direct projects related to physical and biogeochemical ocean state estimation.
2. Secure external funding for research projects.
3. Develop and maintain global and regional-scale numerical ocean models.
4. Process, analyze, and assimilate physical-biogeochemical ocean observations.
5. Conduct numerical ocean modeling simulations and sensitivity experiments on NASA supercomputers.
6. Lead scientific publications in peer-reviewed journals.
INTERPERSONAL CONTACTS
The incumbent will work collaboratively with professors and graduate students and Moss Landing Marine Laboratories and other researchers involved with this collaborative effort.

SUPERVISORY RESPONSIBILITIES
No supervisory responsibilities.

QUALIFICATIONS

Education and Experience
• Ph.D. in Earth Sciences is required.
• Minimum of 10 years of experience with the MIT General Circulation Model (MITgcm) and three years of experience with the ECCO and ECCO-Darwin ocean state estimates, including development of model code, is required.
• 10 years of experience in scientific programming and data analysis software, such as MATLAB, is required.
• Three years of experience in model assimilation of in-situ physical and biogeochemical ocean observations is required.
• At least one year of postdoctoral experience on the topic of ocean biogeochemistry state estimation is required.
• Fieldwork and research cruise experience is required

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.
• Extensive domain-specific knowledge in theoretical and descriptive physical oceanography, ocean biogeochemistry, ocean-glacier interactions, and numerical ocean modeling.
• Extensive experience in data processing, especially those associated with in-situ and remotely-sensed ocean observations.
• Extensive experience in software development and programming with FORTRAN and MATLAB in high-performance computing environments (i.e., supercomputing facilities).
• Experience in securing external funding from NASA and NSF for research projects.

Physical Requirements
• 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.

Complexity of Duties
• Job duties are highly complex and include and involve leading highly-collaborative research projects.
• Developing and analyzing data and numerical model results.
• Writing up and presenting findings, and working with a diverse, interdisciplinary team of researchers.
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 San José State University Research Foundation (SJSURF) provides an excellent benefits package to benefited employees. 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.

Please visit the Benefits & Compensation page on the SJSU Research Foundation website for more detailed information.

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: PROJ DIR MLML
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.