

STATE OF CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION POSITION ESSENTIAL FUNCTIONS DUTIES STATEMENT PO-199 (06/16)		Working Title of Position <u>Landscape Ecologist</u>	
		Division and/or Subdivision <u>Fire and Resource Assessment Program (FRAP)</u>	
INSTRUCTIONS: The Director is required by Government Code Section 19818.12 to report (or to record) "...material changes in the duties of any position in his or her jurisdiction". The Position Essential Functions Duties Statement is used for this purpose. Enter identifying information and effective date at the right. Enter brief description of each of the important duties and responsibilities of the position below. Group related duties in numbered paragraphs and indicate the percentage of total time occupied. Indicate the "essential functions" of the position by placing an asterisk (*) in front of those individual duties you determine to be essential to the job. Discuss the duties with the employee assigned to the position. Both the employee and supervisor sign the document where indicated. The supervisor retains the original document and provides a copy to the employee.		Location of Headquarters <u>Sacramento</u>	
		Class Title of Position <u>Senior Environmental Scientist (Specialist)</u>	
		Position Number <u>541-780-0765-002</u>	
		Effective Date <u>July 22, 2025</u>	
Percentage of Time Required	Effective on the date indicated, the employee assigned to the position identified above performs the following duties and responsibilities.		
40%	<p> Under the direction of the Senior Environmental Scientist (Supervisory) of Assessment and Planning, the Senior Environmental Scientist (Specialist) performs work related to understanding and reporting on current environmental trends and management concerns for California's forests and rangelands. Specific job duties include, but are not limited to: </p> <p> <u>Forest and Rangeland Assessment</u> *Assist with planning, coordination, and development of the California Forests and Rangelands Assessment. *Serve as an author and Subject Matter Expert for one or more chapters of the Assessment. This includes writing and revising draft chapters of the report, producing tables, figures, and maps to illustrate key findings, and conducting data analysis. Collaboratively work with other program staff to support work on additional Assessment content outside of direct area of subject matter expertise. *Contribute to development of written materials required in state forest assessments for US Forest Service Assessment requirements for Federal grant funding under State and Private Cooperative Program. *Use GIS and statistical software to analyze and display data. *Oversee work to support transition to an online Assessment report and data dashboard that is updated more frequently than the full report. *Assist with reviewing, developing, and updating content to maintain the online dashboard of Assessment data. </p> <p> *These are the essential functions for this position. Essential functions are those functions that the individual who holds the position must be able to perform unaided or with the assistance of a reasonable accommodation. </p>		
Equal Employment Opportunity (EEO) Statement: All CAL FIRE employees are expected to conduct themselves in a professional manner that demonstrates respect for all employees and others they come in contact with during work hours, during work related activities, and anytime they represent the department. Additionally, all CAL FIRE employees are responsible for promoting a safe and secure work environment free from discrimination, harassment, inappropriate conduct, or retaliation.			
Job qualifications and/or conditions of employment: <u>See page 2</u>			
"We have discussed this document in its entirety and understand the duties of this position."			
Employee Signature _____		Date _____	
Supervisor Signature _____		Date _____	
Personnel use only <input type="checkbox"/> Posted to Directory			
_____ Initials and date			

Percentage of Time
Required

Effective on the date indicated, the employee assigned to the position identified above performs the following duties and responsibilities.

40%

Landscape and Project level monitoring and analysis

*Utilize Remote Sensing, aerial, and ground-based data collection systems (e.g., Light Detection and Ranging, photogrammetry) for the purposes of monitoring forest structure, forest health, and forest mortality metrics associated with management activities, disturbance, and climate change. *Serve as program expert on emerging forest and rangeland data collection methods and technologies. *Build and maintain relationships within CAL FIRE and with external partners engaged in collection and processing of data monitoring resources. *Use and process data collected from CAL FIRE Intel program aerial resources on wildfire incidents and baseline data from various sources to understand fire behavior and vegetation, ecosystem, and human/social impacts. *Serve on committees and collaborate with land management partners, state and federal agencies, academic partners, and other stakeholders to interpret and communicate results and implications. *Write reports, present findings, and compose and publish research papers on related topics. *Coordinate with Demonstration State Forest Program to acquire, process, and interpret remote sensing data to support research, inventory, monitoring, and forest management.

10%

Field-based research support

*Assist with field data collection and analysis to support FRAP research on State Forests and other collaborative research projects with internal and external partners. *Collaborate on monitoring projects that integrate remote sensing with field-based monitoring protocols.

10%

Special Assignments

*Assist with special projects, bill analysis, media requests, information requests from CAL FIRE executives, and other duties as assigned in accordance with the class specification.

Desirable Qualifications

- Subject Matter Expert in one of the following natural resource areas is preferred: Water resources, Rangeland ecology and management, Wildlife habitat/ecology, or Forest and Fire ecology.
- Experience in remote sensing, data modeling and scripting, landscape ecology, forestry, wildlife, range management or other natural resources experience.
- Experience writing scientific reports or manuscripts.
- Familiarity with climate models and their application to vegetation dynamics.
- Familiarity with one or more commonly used scripting languages to support data analysis.

*These are the essential functions for this position. Essential functions are those functions that the individual who holds the position must be able to perform unaided or with the assistance of a reasonable accommodation.

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Job qualifications and/or conditions of employment: The incumbent must be absent of any medical condition which would preclude the safe and efficient performance of a Senior Environmental Scientist (Specialist). Persons unsuccessful in the required medical exam cannot be appointed.

"We have discussed this document in its entirety and understand the duties of this position."

Employee Signature

Date

Supervisor Signature

Date

Personnel use only

☐ Posted to Directory

Initials and Date