

DUTY STATEMENT

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Employee Name: Vacant	Current Date: April 14, 2024
Classification: Air Pollution Specialist	Position #: 673-450-3887-075
Division/Office: Industrial Strategies Division/ Carbon Management Branch	CBID: R09
Section: Nature-Based Strategies Section	
Supervisor Name: Adam Moreno	Supervisor Classification: Air Resources Supervisor I

I certify that this duty statement represents an accurate description of the essential functions of this position.	
Supervisor:	Date:

I have read this duty statement and agree that it represents the duties I am assigned.	
Employee:	Date:

SPECIAL REQUIREMENTS OF POSITION (IF ANY):

- Designated under Conflict of Interest Code.
- Duties performed may require pre-employment physical.
- Duties performed may require drug testing.
- Duties require participation in the DMV Pull Notice Program.
- Requires the utilization of a 32-pound self-contained breathing apparatus.
- Operates heavy motorized vehicles.
- Requires repetitive movement of heavy objects.
- Works at elevated heights or near fast moving machinery or traffic.
- Performs other duties requiring high physical demand. (Explain below):
- Duties require use of hearing protection and annual hearing examinations.

SUPERVISION EXERCISED

<input checked="" type="checkbox"/> None	<input type="checkbox"/> Lead Person
<input type="checkbox"/> Supervisor	<input type="checkbox"/> Team Leader

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FOR SUPERVISORY POSITIONS ONLY: Indicate the number of positions by classification that this position DIRECTLY supervises: N/A

Total number of positions in Section/Branch/Office for which this position is responsible:
N/A

FOR LEADPERSONS OR TEAM LEADERS ONLY:

Indicate the number of positions by classification that this position LEADS: N/A

MISSION OF SECTION:

The California Air Resources Board (CARB) is the State agency responsible for reducing greenhouse gas emissions for the State of California. It is CARB's responsibility to develop a strategy for California to be carbon neutral by 2045, implement policies to achieve carbon neutrality, and to track progress towards that objective. As part of this effort, Natural and Working Lands (NWL) are a critical component of California's climate change mitigation strategy. NWL refers to all forests, shrublands, grasslands, croplands, deserts, wetlands, and developed lands within California's boundaries.

The Nature-Based Strategies Section (NBSS) brings together all of these lands, quantifying their socio-ecological impacts, to formulate statewide holistic nature-based climate action policy. Specifically, this section leads the integration of natural systems into California's overall carbon neutrality and climate action efforts. To accomplish this the NBSS uses data and scientific inference to inform and develop cutting-edge statewide nature-based policies, decisions, and programs.

The NBSS works in close coordination with other California State agencies to support the natural-based carbon dioxide removal needed for California to achieve carbon neutrality. As part of this mission, the NBSS is responsible for supporting the development of nature-based carbon removal targets, tracking progress towards nature-based climate targets, evaluating the viability of various nature-based strategies, and supporting the development of requirements to ensure the environmental integrity of nature-based carbon removals as part of the agencies broader efforts to implement AB 32, SB 32, AB 1279, AB 1757, and SB 901. The section is also responsible for supporting the deployment of nature-based climate solutions that support the State's water, biodiversity, adaptation/resiliency, air quality, and other environmental and economic goals and helps to advance national and international efforts on nature-based climate solutions.

CONCEPT OF POSITION:

Under direction of the Air Resources Supervisor I, the Air Pollution Specialist (APS) applies scientific methods and principles in the identification, study, and solution of air

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pollution problems, including those related to GHG emissions. The APS will use remote sensing and geospatial processing to quantify environmental state and change, including the carbon stocks and fluxes to and from California’s NWL. The APS will also design and perform analyses to generate policy relevant information and to determine effectiveness or impact of land management actions on environmental change.

The APS will contribute to CARB’s efforts to use remote sensing, empirical, field inventory, reported, and other ancillary data within statistical, biogeochemical, and/or empirical models to quantify the current and future state of carbon in ecosystems. The APS will be a subject matter expert on the use of remote sensing and big-data geospatial programming/processing across all of California’s NWL.

<u>% OF TIME</u>	<u>RESPONSIBILITIES OF POSITION</u>
35% - E	Work with other staff and independently to develop and execute methods for the use of remote sensing, and other data to quantify the past, present, and future of NWL carbon stocks and fluxes, and other environmental metrics within California’s borders. Serve as the technical lead on the use of space-based remote sensing data and big-data analysis. Contribute to CARB’s NWL carbon inventory. Incorporate multiple socio-environmental metrics into the work of the section. This can include ecosystem services, ecosystem state and function, environmental justice and equity concerns, and economic and health analysis. Develop models and remotely sensed data products as needed. Work with other members of the section to help generate data and analyses as needed.
25% - E	Develop and execute methods for causal and attribution assessments of environmental change particularly isolating the impact of climate action. Contribute to the big-data remote sensing component of this work. Use this information for developing policy recommendations on topics including climate action implementation and investment, and for Senate Bill 901 reporting (quantifying the impact that forest management has on carbon stocks and emissions).
15% - E	Work with other state agencies to ensure interagency collaboration for the successful exchange of data, information, knowledge, and reporting. Coordinate with and assist other staff within the section to ensure consistency of data products, timelines are met, resource

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	needs are provided, and technical and scientific questions are answered.
15% - E	Enhance the technical aspects, as well as the policy impacts of the work of the section. Work with local and federal agencies on joint projects and to ensure that their needs are met through the work of this section. Work with other states to ensure that the methods used within California can be replicated by other states. Stay current on scientific literature, data products and tools, and state policies related to NWL within California
10% - M	Participate and assist in the development of public meetings and workshops while representing CARB. Write and present briefings, memos, and reports to all levels of CARB management, as well as to inter-agency staff, and the public.