

DUTY STATEMENT

ASD/HRB-12 (REV. 03/2020) PAGE 1 OF 3

DUTY STATEMENT

Employee Name: Vacant	Current Date: 08/26/2025
Classification: Air Pollution Specialist	Position #: 673-310-3887-008
Division/Office: Research	CBID: R09
Section: Atmospheric Processes Research	
Supervisor Name: Morteza Amini	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): Driving long distances using a state fleet equipped with various air monitoring equipment. Physically lifting and moving air monitoring equipment.
- ☐ Duties require use of hearing protection and annual hearing examinations.

SUPERVISION EXERCISED

☒ None	☐ Lead Person
☐ Supervisor	☐ Team Leader

DUTY STATEMENT

ASD/HRB-12 (REV. 03/2020) PAGE 2 OF 3

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 LEAD PERSONS OR TEAM LEADERS ONLY:

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

MISSION OF SECTION: The Atmospheric Processes Research Section (APRS) of the Research Division (RD) conducts research needed to efficiently achieve the National Ambient Air Quality Standards (NAAQS) and California's climate change mitigation goals. Research conducted under APRS supports the development of the State Implementation Plans (SIPs), evaluates the short-lived climate pollutant (SLCP) emission reduction strategies, improves the characterization of various air pollutant emission sources, and takes preemptive steps to study the effects of climate change on California's air quality. APRS leverages scientific knowledge, internal air monitoring and analysis capabilities, contracts, and partnerships with various stakeholders to improve the robustness of CARB's policy and regulatory decisions.

CONCEPT OF POSITION: Under the supervision of the APRS Air Resources Supervisor I, the Air Pollution Specialist (APS) will collaborate with internal and external stakeholders to design, manage, and lead research projects that address California's evolving air quality and climate change challenges. The APS will apply advanced measurement tools (e.g., mobile platforms, Proton-Transfer-Reaction Mass Spectrometer (PTR-MS), Cavity Ring-Down Spectrometers (CRDS), Fast Mobility Particle Sizer (FMPS), Light Detection and Ranging (LiDAR), analytical methods (e.g., programming, source apportionment, dispersion modeling), and existing datasets (e.g., emissions inventories, ambient pollutant concentrations) to characterize air pollution sources, assess regional and local air quality issues, and investigate statewide air pollution trends. The topic of research will evolve based on the agency's needs. Additional responsibilities will include developing and managing research contracts, maintaining and troubleshooting air monitoring assets, engaging with stakeholders, preparing standard operating procedures, presenting findings to technical and non-technical audiences, and leading or supporting field campaigns.

DUTY STATEMENT

ASD/HRB-12 (REV. 03/2020) PAGE 3 OF 3

<u>% OF TIME</u>	<u>RESPONSIBILITIES OF POSITION</u>
25%-E	Lead ambient air quality research projects (e.g., in-house, partnerships, collaborations) to inform California's emerging air quality and climate change mitigation objectives, particularly related to the State Implementation Plans (SIPs), Assembly Bill (AB) 2588, and Senate Bill (SB) 1383. Work with program-level staff and external stakeholders to improve the impact and robustness of the research outcomes.
20%-E	Use and develop sophisticated analysis techniques (e.g., Python codes, source apportionment models, dispersion models), in-house measurement tools (e.g., mobile platforms, Proton-Transfer-Reaction Mass Spectrometer (PTR-MS), Aerosol Chemical Speciation Monitor (ACSM), Cavity Ring-Down Spectrometers (CRDS), Fast Mobility Particle Sizer (FMPS), atmospheric Light Detection and Ranging (LiDAR), and various databases (e.g., emission inventory, ambient pollutant concentrations) to characterize air pollution sources and assess regional and local air quality issues. Analyze scientific data. Conduct and support field campaigns to collect necessary data. Traveling and overnight stays are required based on field campaign needs.
20%-E	Lead CARB's research and service contracts. Develop external research concepts; provide technical review of proposals and reports for the management and the Research Screening Committee; work with the administrative staff to initiate research proposals; and review, evaluate, and recommend actions based on intermediate and final reports.
15%-E	Develop presentations and reports summarizing technical research findings. Effectively communicate the research objectives, methods, and findings to technical and non-technical audiences. Prepare reports and manuscripts for peer-reviewed publications, CARB's regulatory activities, and the general public.
10%-E	Provide support to staff. Troubleshoot errors and issues related to CARB's air monitoring assets. Analyze and collect data. Maintain air monitors and other equipment as needed.
10%-M	Inform CARB staff and management team on appropriate technical and policy responses to emerging areas of air pollution research by keeping current with scientific literature and Federal, State, and local regulations related to air quality, climate, and sectoral emissions. Analyze existing datasets to investigate statewide air pollution trends.