

State of California
AIR RESOURCES BOARD
DUTY STATEMENT

EMPLOYEE NAME: Vacant

CURRENT DATE: 07/01/2019

CLASSIFICATION: Air Pollution Specialist

POSITION #: 673-710-3887-xxx

DIVISION/OFFICE: AQPSD/MSAB

CBID: R09

SECTION: On-Road Model Development
Section

SUPERVISOR'S NAME: Fang Yan

SUPERVISOR'S CLASS: Air Resources
Supervisor I

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

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

Supervisor's Signature

Date

Employee's Signature

Date

.....
SPECIAL REQUIREMENTS OF POSITION (IF ANY):

- Designated under Conflict of Interest Code.
- Duties performed may require annual 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)

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SUPERVISION EXERCISED (check one):

- None
- Supervisor

- Lead Person
- 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 On-Road Model Development Section of the Mobile Source Analysis Branch assesses on-road motor vehicle activity and emission factors in order to develop fundamental emissions inventory estimates and models. Major projects include supporting emission inventory estimates for regulations, continued development and refinement of EMFAC, the development of emission factors for on-road cars and heavy-duty trucks, as well as the analysis and forecasting of California's freight and passenger transportation system. The section is also responsible for development of new programming platforms upon which next generations of EMFAC modules will be based on.

CONCEPT OF POSITION: Section 18 of the Road Repair and Accountability Act of 2017 (SB 1) requires CARB to track the impacts on local emissions and compliance with State Implementation Plans (SIP) resulting from the new useful life provisions for commercial vehicles (Sect. 18) and the enhanced compliance provisions associated with implementing the Truck and Bus Regulation (Sect. 45 and 46). This requires staff to develop data collection methods, design techniques to analyze complex data, perform research, conduct test programs, code logic and data into computer models for tracking the impact of SB 1 on Truck and Bus Regulation compliance, as well as local/regional emission inventories (i.e., SIP inventories). The position requires close interaction and teamwork with other CARB inventory staff, as well as a variety of internal and external clients, including other CARB divisions, government agencies, policymakers, industry, environmental organizations, and the public. The specific duties include:

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% Of Time

- 35%-E Perform a comprehensive evaluation of the SB-1 useful life provision to develop appropriate metrics that need to be tracked before and after implementation of SB 1 useful life provision to assess its potential impacts on compliance with Truck and Bus rule, as well as local and regional emissions inventories. Coordinate with Department of Motor Vehicles (DMV) and other state agencies to better characterize vehicles that were refused registration due to SB 1 requirements. Perform extensive data mining and analysis, and review literature to provide background and expertise to determine the compliance status of each individual truck that is either registered in California or is registered in other states and is travelling to California routinely, and to track the compliance metrics (to be defined) to delineate potential impacts of useful life provision on truck and bus compliance.
- 30%-E Design and develop data collection techniques such as collection of license plate data using Automated License Plate Readers (ALPRs), and coordinate with government and the private sector to have an accurate determination of heavy duty trucks operating in California in order to assess 1) the impact of useful life provision on migration of used trucks to/from California; and 2) their compliance with Truck and Bus Regulation. Develop state-of-the-art data analysis techniques to process and analyze the collected information.
- 20%-E Write and deliver reports to the Legislature on the impacts of provisions as well as recommendations on additional or different mechanisms for achieving State and local clean air goals while recognizing the financial investments made by the affected entities, taking into account reporting requirements under AB 197 (Section 38531 of the Health and Safety Code). Prepare and review critiques of complex and detailed technical reports, memoranda, and other documents intended for management or outside stakeholders. Independently stay abreast of and brief management on the state-of-the-science in existing, new, or evolving data collection efforts associated with characterizing mobile source inventories.

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- 10%-E Meet with clients, contractors, and stakeholders to discuss emission estimation methodologies and results. Participate in public workshops. Develop and deliver oral presentations as needed. Assist section manager in planning, organizing, and implementing section programs.
- 5%-M Respond to requests and inquiries. Coordinate with and provide consultation to private and governmental agencies doing related emissions development work. Perform other duties as may be necessary to meet the needs of the On-Road Model Development Section. Occasional travel may be required.