



State of California  
 California Environmental Protection Agency  
 Office of Environmental Health Hazard Assessment

## DUTY STATEMENT

CURRENT       PROPOSED

RPA Number:	Classification Title: Staff Toxicologist (Specialist)	Position Number: 811-150-7978-003
Incumbent Name:	Working Title:	Effective Date:
Tenure: Permanent	Time Base: Full Time	Intermittent Hours Per Month: N/A
Division/Office: Division of Scientific Programs/Air and Site Assessment and Climate Indicators Branch	Section/Unit: Air Toxicology and Risk Assessment Section	Reporting Location: Oakland/Sacramento
Supervisor's Name: Rima Woods	Supervisor's Classification: Senior Toxicologist	CBID: R10
Confidential Designation:  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Designated Position for Conflict of Interest:  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Position Telework Eligible:  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Supervision Exercised: <input checked="" type="checkbox"/> None <input type="checkbox"/> Lead <input type="checkbox"/> Managerial <input type="checkbox"/> Supervisory		

<b>Human Resources Use Only:</b>	
HR Analyst Approval:	Date:

### General Statement

This position requires the incumbent to maintain consistent and regular attendance; communicate effectively (orally and in writing if both appropriate) in dealing with the public and/or other employees; develop and maintain knowledge and skill related to specific tasks, methodologies, materials, tools and equipment; complete assignments in a timely and efficient manner; and adhere to department policies and procedures regarding attendance, leave, and conduct.

### Position Description

The Air Toxicology and Risk Assessment Section (ATRAS) in the Air and Site Assessment and Climate



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Incumbent:  
Classification: Staff Toxicologist (Specialist)  
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Indicators Branch provides health effects assessments of air pollutants. The ATRAS develops health effects assessment for Toxic Air Contaminants, chemicals listed under the Air Toxics Hot Spots Act, and inhaled chemicals of interest or concern to other California public health protective programs; and provides risk assessment guidelines and review risk assessments under the Hot Spots programs. The ATRAS generates risk assessment guidelines and specific assessments of risks to public health from toxic chemicals in air, for use by the California Air Resources Board (CARB) and local Air Pollution Control/Air Quality Management Districts (Air Districts) in their regulatory actions under the Toxic Air Contaminants (Health and Safety Code Section 39660 et seq.) and Air Toxics Hot Spots (Health and Safety Code Section 44300 et seq.) programs. The ATRAS also reviews Air Toxics Hot Spots facility health risk assessments (HRAs) for the Air Districts and reviews alternative fuel human health impacts for the California Environmental Policy Council as part of the Multimedia Fuels Group.

Under general direction of the Senior Toxicologist, Chief, Air Toxicology and Risk Assessment Section, the Staff Toxicologist (Specialist) performs risk analysis and assessment of the toxicity of substances identified as of concern under the Toxic Air Contaminants and Air Toxics Hot Spots programs. The Staff Toxicologist (Specialist) participates with CARB staff in prioritizing chemicals for consideration under these programs and prepares or updates guidance documentation on compound-specific risk assessment and site-specific exposure assessment. The Staff Toxicologist (Specialist) contributes to other Section programs, including consideration of proposals for exemption from Volatile Organic Compounds (VOC) regulations, or as alternatives to perchloroethylene in dry cleaning. The Staff Toxicologist (Specialist) works as a team member and subject-matter expert in a multidisciplinary team of scientists evaluating public health risks from exposures to airborne toxic substances in the community. The Staff Toxicologist (Specialist) is expected to work independently and provide decisions on tasks assigned. The Staff Toxicologist (Specialist) will perform all the following duties, and other related work:

### **Essential Functions (Including percentage of time):**

- 30% Evaluates available toxicity information for potential health risks from substances emitted into the air to assist CARB and local air districts to identify, assess and communicate the health effects of toxic and potentially toxic substances. Develops recommendations for air pollution episode criteria levels for pollutants. Evaluates the literature on specified toxic air contaminants to determine which toxic air contaminants (TACs) have the potential to have greater impacts on infants and children than on adults. Reviews all available information on the pharmacokinetics and toxicity of the specified TACs and provides written analysis of the potential for differential impacts on infants and children, and evaluates the adequacy of risk assessment methodologies to protect infants and children. Prepares written reviews of Air Toxics Hot Spots facility Health Risk Assessments (HRAs) for the Air Districts using the methodology contained in the 2015 Air Toxics Hot Spots Program Guidance Manual. Evaluates data submitted in facility HRAs using Hotspots Analysis and Reporting Program (HARP) and Google Earth software and determines if facility HRA results agree with OEHHA data analysis. Performs health effects assessments for requested exemptions from Volatile Organic Compounds (VOC) regulations, or alternatives to perchloroethylene in dry cleaning. Evaluates alternative fuel environmental and human health impact reports for adequacy of data and correctness of recommendations, and provide written reports and recommendations to the Multimedia Fuels Group on that data.



- 30% Conducts, prepares or reviews health effects assessments and risk guidance values for the California Air Resources Board (CARB) Toxic Air Contaminants and Air Toxics Hot Spots programs. Uses quantitative risk assessment methodology for the application of NOAEL (No Observable Adverse Effect Level) or benchmark dose (BMD) methods to the derivation of health-protective Reference Exposure Levels (RELs) for non-cancer endpoints; and application of models such as the linearized multistage model and BMD methods for derivation of cancer potency factors. Analyzes non-cancer and/or cancer chemical toxicity data to determine if a suitable data set exists for dose-response modeling. Determines if a NOAEL or BMD approach should be used for REL development. Analyzes cancer data to determine the correct parameters for cancer dose-response modeling.
- 15% Serves as subject matter expert on the adverse health effects of toxicants emitted into the air in responding to written and telephone inquiries regarding the Toxic Air Contaminants and Air Toxics Hot Spots programs and activities. Provides technical guidance in interpreting risk assessment information to staff of the CARB, air pollution control districts, local, state and federal governmental entities, regulated community, and environmental and health organizations. Performs scientific peer reviews and prepares written findings on airborne toxicants and toxic emission documents, guidance reports, risk assessments, and regulations for CARB and other CalEPA boards and departments. Attends programmatic and project meetings representing OEHHA.
- 10% Attends, participates and develops written materials and oral presentations relating to the health effects assessments of airborne contaminants for the Scientific Review Panel meetings, public hearings, scientific meetings, workshops, and meetings of local health departments, air quality management districts, members of the regulated community and environmental and health organizations. Develops and presents health effects information, recommendations and training for airborne toxicants. Prepares responses to public meeting comments.
- 10% Provides technical assistance to other sections and branches of OEHHA, other BDOs and other State or local agencies relating to the toxicology of contaminants of air and other media. Performs scientific peer reviews of documents prepared by OEHHA. Participates in departmental team projects and assignments. Prepares departmental documents, bill analysis, regulations and reports relating to airborne toxicants and emission pollutants. May testify as an expert witness in hearings and court procedures, meetings, and seminars on the health effects of substances considered under the air toxics programs.

**Marginal Functions (Including percentage of time):**

- 5% Attends Racial Equity and Environmental Justice (REEJ)-related trainings and activities. Trainings include building skills to enhance OEHHA's outreach through improving science communication with both written material and oral presentations. Participates in workgroups to support REEJ practices. Works with REEJ manager to support the process of including REEJ in all OEHHA programs.



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### **Typical Physical Conditions/Demands:**

The job requires extensive use of a personal computer and the ability to sit/stand at desk, utilize a phone, and type on a keyboard for extended periods of time. Ability to lift 15 pounds, bend and reach above shoulders to retrieve files and/or documents.

### **Typical Working Conditions:**

OEHHA has a hybrid work environment that includes work in an office setting in a high-rise building and telework at home. OEHHA's office is located in a downtown high-rise office building. The air-conditioned accommodation consists of open areas furnished with cubicles, not all of which have direct natural illumination. Extended periods of reading and writing, and frequent use of computer workstations with statistical, bibliographic, communications or word processing software. Time critical assignments are part of the workload. Hours are worked on a flextime basis, subject to supervisor's approval, and may at times necessitate attendance at the State office or at off-site meetings outside standard office hours. Availability to occasionally travel statewide and out of State. May be required to travel to other OEHHA locations for business related needs as necessary.

### **Special Requirements of Position (Check all that apply):**

- Duties performed may require pre-employment and/ or routine screenings (background/criminal/fingerprint clearance, drug testing, fingerprinting, physical, etc.).
- Duties require participation in the DMV Pull Notice Program.
- Performs other duties requiring high physical demand. (Explain below)
- Requires repetitive movement of heavy objects and/or operation of heavy machinery or motorized vehicles.
- Other (Explain below)

### **Explanation:**





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## DUTY STATEMENT

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RPA Number:	Classification Title: Associate Toxicologist	Position Number: 811-150-7941-xxx
Incumbent Name:	Working Title:	Effective Date:
Tenure: Permanent	Time Base: Full Time	Intermittent Hours Per Month: N/A
Division/Office: Division of Scientific Programs/Air and Site Assessment and Climate Indicators Branch	Section/Unit: Air Toxicology and Risk Assessment Section	Reporting Location: Oakland/Sacramento
Supervisor's Name: Rima Woods	Supervisor's Classification: Senior Toxicologist	CBID: R10
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Under direction of the Senior Toxicologist, Chief of the Air Toxicology and Risk Assessment Section, the Associate Toxicologist performs hazard identification, dose response assessment and risk analysis of the toxicity (or lack thereof) of actual or candidate toxic air contaminants (TACs) and substances listed or potentially of concern under the Air Toxics Hot Spots program. The Associate Toxicologist works as a member of a multidisciplinary team of scientists evaluating public health risks, and works under the guidance of a Staff Toxicologist or Senior Toxicologist, where assigned tasks are of average difficulty, and makes decisions independently on routine tasks assigned. The Associate Toxicologist will perform all the following duties, and other related work:

### **Essential Functions (Including percentage of time):**

- 30% Researches data on the health effects of toxic air contaminants and potential toxic air contaminants from studies in experimental animals, and epidemiological and clinical studies in humans. Evaluates the literature on specified toxic air contaminants to determine which toxic air contaminants (TACs) have the potential to have greater impacts on infants and children than on adults. Reviews all available information on the pharmacokinetics and toxicity of the specified TACs and provides written analysis of the potential for differential impacts on infants and children. Works with other toxicologists and Public Health Medical Officers in the Section to evaluate the adequacy of risk assessment methodologies to protect infants and children.
- 25% Under guidance of senior staff, uses quantitative risk assessment methodology for the application of NOAEL (No Observable Adverse Effect Level) or benchmark dose (BMD) methods to the derivation of health-protective Reference Exposure Levels (RELs) for non-cancer endpoints; and application of models such as the linearized multistage model and BMD methods for derivation of cancer potency factors. Participates in the analysis of non-cancer and/or cancer chemical toxicity data to determine if a suitable data set exists for dose-response modeling. Consults with senior staff to determine if a NOAEL or BMD approach should be used for REL development, and analyzes cancer data to determine the correct parameters for cancer dose-response modeling.
- 15% Contributes input to reports for public comment and for review by the state's Scientific Review Panel (SRP) on TACs and substances requiring evaluation under the Air Toxics Hot Spots program, analyzing risks to public health from exposure to specified toxic chemicals, and their



potential to differentially impact infants and children. Presents report information at public hearings and workshops to fulfil Office's duty to inform public. Prepares responses to public comments on reports for review by supervisor to ensure thoroughness and completeness. Provides input through research and literature review to testimony relating to these reports for the SRP. Drafts preliminary responses to SRP comments to ensure that the Panel's input is taken into account.

- 10% Works with senior staff to prepare written reviews of Air Toxic Hot Spots facility HRAs for the Air Districts using the methodology contained in the 2015 Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments and the Hotspots Analysis and Reporting Program (HARP). Evaluates data submitted in facility HRAs using HARP and Google Earth software and determines if facility HRA results agree with OEHHA data analysis.
- 10% Evaluates alternative fuel environmental and human health impact report for adequacy of data and accuracy of report summaries, and provides written reports and recommendations to the Multimedia Fuels Group on that data. Evaluates alternative fuel Tier reports for adequacy of data and correctness of conclusions, using non-cancer and cancer toxicology principles.

**Marginal Functions (Including percentage of time):**

- 5% Provides technical assistance to other sections of OEHHA relating to the toxicology of contaminants of air and other media. Assists with scientific peer reviews of documents prepared by OEHHA. Participates in departmental team projects and assignments. Assists and prepares departmental documents, bill analysis, regulations and reports relating to airborne toxicants and emission pollutants.
- 5% Attends Racial Equity and Environmental Justice (REEJ)-related trainings and activities. Trainings include building skills to enhance OEHHA's outreach through improving science communication with both written material and oral presentations. Participate in workgroups to support REEJ practices. Works with REEJ manager to support the process of including REEJ in all OEHHA programs.

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### **Explanation:**

