

# DUTY STATEMENT

<b>Classification:</b> Senior Environmental Scientist (Specialist)		<b>Position Number:</b> 811-145-0765-002	
<b>Branch/Section:</b> Reproductive & Cancer Hazard Assessment Branch/Safer Alternatives Assessment & Biomonitoring Section			
<b>Location:</b> Oakland or Sacramento		<b>Effective Date:</b>	
<b>Management Designation</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Conflict of Interest</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Supervision Received:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Supervision Exercised:</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Pursuant to Government Code Section 3100-3109, all public employees are declared to be disaster service workers for the protection of the health and safety and preservation of the lives and property of the people of the state from the effects of natural, man-made, or war-caused emergencies. Such emergencies may result in conditions of disaster or extreme peril to life, property, and resources and an appropriate response. This is of paramount importance to the state in protecting its citizens and resources.

## POSITION SUMMARY

The Safer Alternatives Assessment and Biomonitoring Section (SAABS) of the Reproductive and Cancer Hazard Assessment Branch in the Office of Environmental Health Hazard Assessment (OEHHA) carries out the following major public health and environmental activities: conducts OEHHA's component of the California Environmental Contaminant Biomonitoring Program (CECBP; also known as Biomonitoring California); identifies and assesses emerging environmental contaminants concerns using innovative methods; provides high-level biostatistical support, including conducting complex dose-response assessments under Proposition 65 and assessing exposures and risks associated with fuel-related air pollutants; and provides expert technical assistance to other OEHHA programs and other California agencies, such as the California Air Resources Board (support for implementation of the Community Air Protection Program under AB 617; C. Garcia, Chapter 136, Statutes of 2017).

Under general direction of the Environmental Program Manager I (Supervisory), Chief of SAABS, the Senior Environmental Scientist (Specialist) will independently conduct complex scientific analyses to compile and analyze air monitoring and emissions data in communities identified under AB 617; analyze air pollution data to identify key pollutants of concern and estimate exposures; compare air pollution exposures across communities; conduct air pollution exposure studies; evaluate approaches for reducing exposures to air pollutants, such as air filtration; apply air pollution exposure research findings to interpret results from targeted biomonitoring studies; and communicate research findings in writing and through presentations at public meetings. The Senior Environmental Scientist (Specialist) performs all duties listed below and other related work.

## ESSENTIAL FUNCTIONS

- 35% Conduct Scientific Analyses of Air Pollutant Exposures.** Compile air monitoring and emissions data available for AB 617 communities and other communities in California. Summarize air pollutant measurements and air monitoring data collected as part of the AB 617 targeted biomonitoring studies. Analyze the air monitoring and emissions data and air pollutant measurements to assess air pollutant exposures communities. Compare air pollutant exposures between communities and over time. Conduct modeling to support detailed exposure assessments for air pollutants under various scenarios. Use findings from air pollution exposure analyses to support interpretation of targeted biomonitoring study results and design additional studies.
- 20% Conduct Air Monitoring and Air Pollutant Measurements.** Conduct air monitoring and air pollutant measurements as part of targeted biomonitoring studies. Perform walkthroughs of biomonitoring study locations, such as schools or homes, to document relevant characteristics, including identifying potential indoor and outdoor sources of air pollutants; recording details of the heating, ventilation, and air conditioning (HVAC) system; noting presence of stove exhaust fan and/or air filtration equipment; and examining other factors relevant to the chemical exposure being studied. Set up and maintain air monitoring and air pollutant measurement devices. Collect equipment after studies are completed.
- 20% Evaluate Approaches for Reducing Air Pollutant Exposures.** Conduct research to identify possible ways to reduce exposures to air pollutants of concern. Review emission reduction plans for AB 617 communities. Identify emission reduction strategies that are being implemented or are planned for implementation in AB 617 communities. Evaluate the effectiveness of the strategies through air pollutant modeling studies, air pollutant monitoring and measurements conducted as part of targeted biomonitoring studies, and other exposure assessment analyses.

**20% Communicate Air Pollution Exposure Research Findings.** Develop written reports to summarize findings from complex air pollution exposure research. Create brief summaries of the reports to effectively communicate the meaning of the findings to AB 617 stakeholders, government scientists, health care professionals, the general public, and other interested groups. Develop written materials responsive to community and other stakeholder concerns to share at public meetings. Prepare and give verbal presentations to a wide range of audiences, such as community stakeholders and expert panels, to clearly convey key results on air pollutant exposures and health concerns.

**MARGINAL FUNCTIONS**

**5%** Independently prepare scientific papers on exposure research findings, community health concerns, and exposure reduction efforts. Give presentations about these publications at scientific conferences.

**REQUIRED QUALIFICATIONS**

Education and/or experience in:

- Air pollution exposure science
- Environmental health sciences

Ability to:

- Analyze scientific data to research key issues and draw robust conclusions.
- Review and interpret scientific and environmental documents and make recommendations.
- Write complex scientific and technical documents, such as reports, project summaries, and journal articles, to clearly communicate methods, analyses, findings, and recommendations.
- Communicate effectively in person to scientific colleagues, managers, external stakeholders, and the general public.
- Deliver presentations to audiences with varying levels of scientific understanding.

**DESIRED QUALIFICATIONS**

- Functions well as part of a multidisciplinary team and works cooperatively with external partners.
- Committed to ethical scientific research principles.
- Dependable in meeting work related responsibilities.
- Able to work in a variety of environments in a safe manner.

**WORKING CONDITIONS**

- Varied work settings, including cubicle on 12<sup>th</sup> or 16<sup>th</sup> floor of a high-rise building; telecommuting from home office and other authorized off-site locations as needed; representing the program at public meetings and with community organizations; and conducting field duties for biomonitoring studies.
- Extensive computer use, which involves prolonged sitting, viewing of a monitor, and repetitive motion.
- Time-critical assignments.
- Travel across California for community engagement meetings and study activities.
- Travel to other OEHHA locations for business-related needs as necessary.

**(Attach additional sheet if necessary)**

I have read and understood the duties and essential functions of the position and can perform these duties with or without reasonable accommodation:	Date:
<b>Employee Signature:</b>	
I certify that the above accurately represent the duties of the position:	Date:
<b>Supervisor Signature:</b>	
<b>PERSONNEL USE ONLY: This personnel action has been reviewed and approved by:</b>	
<b>Personnel Analyst Signature:</b>	Date: