



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

DUTY STATEMENT

CURRENT

PROPOSED

RPA Number: RCHAB-007 FY 24-25	Classification Title: Research Scientist III Epidemiology/Biostatistics	Position Number: 811-145-5594-005
Incumbent Name:	Working Title: Cancer Epidemiology Research Scientist	Effective Date:
Tenure: Permanent	Time Base: Full time	Intermittent Hours Per Month:
Division/Office: Division of Scientific Programs/Reproductive and Cancer Hazard Assessment Branch	Section/Unit: Cancer Toxicology and Epidemiology Section	Reporting Location: Oakland/Sacramento
Supervisor's Name:	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		

Human Resources Use Only:

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 Cancer Toxicology and Epidemiology Section (CTES) within the Reproductive and Cancer Hazard



Assessment Branch (RCHAB) provides technical support for the implementation of the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). The Section identifies chemicals for listing as causing cancer under Proposition 65, conducts dose- response and exposure assessments, develops carcinogen risk assessment guidance and methodology, reviews information on exposure sources, pathways, risks and avoidance measures for chemicals listed under Proposition 65, and develops factsheets and website content to communicate this information to the public. CTES provides technical assistance to other programs in the Office of Environmental Health Hazard Assessment (OEHHA), the Attorney General's Office, and other California government entities.

Under direction of the Senior Toxicologist, Chief of CTES, the Research Scientist III (Epidemiology/Biostatistics) plans, organizes, and directs epidemiological research studies of a highly developed scientific scope and complexity to evaluate and prioritize chemicals for possible listing under Proposition 65, maintain the Proposition 65 list of carcinogens, and conduct cancer dose response assessment. The incumbent serves as the subject-matter expert on cancer epidemiology to provide advanced and highly specialized scientific research expertise related to exposure assessment, exposure modeling, and data analysis. The Research Scientist III (Epidemiology/Biostatistics) works closely with toxicologists and other scientists in the course of performing the following duties and other related work:

Essential Functions (Including percentage of time):

- 35% Plans and organizes epidemiological studies for hazard identification purposes. Directs and performs analysis of epidemiological data and evaluates epidemiological studies for use in hazard identification for carcinogenicity. Reviews and interprets parameters of study design, methodology, and conduct, such as appropriate methods of analysis and interpretation of data, selection of the exposed and referent groups, reliable assessment of exposure, the completeness of follow-up, and the assessment and quantification of bias and confounding. Provides scientific consultation on cancer hazard identification issues associated with epidemiology data to other programs, as required. Interprets complex epidemiological hazard identification materials to make presentations at public meetings, including meetings of the State's Qualified Experts - Carcinogen Identification Committee (CIC).
- 30% Plans and organizes dose-response research of carcinogens. Directs and performs dose-response assessments using epidemiological data and develops documentation of safe harbors for carcinogens and advises other staff on the development of such documentation. Develops risk assessment methodology guidelines for hazard identification and dose response analysis of carcinogens. Develops documentation of the rationale for model selection and the underlying assumptions that include characterization of the uncertainties associated with the development of the guidance values. Develops and evaluates advanced mathematical and statistical models which improve estimation of risk from exposure to carcinogens.

Determines the suitability of epidemiological data for dose-response assessment and the estimation of safe harbor levels in exposed humans, including consideration of the most complex issues of study design and analysis. Organizes and holds public workshops to discuss epidemiological issues, as required. Responds to comments from the public and other



interested parties, including the CIC, on epidemiological issues and human exposure issues in safe harbor development.

- 15% Develops and applies advanced dose-response modeling techniques. Plans and conducts scientific research to evaluate the benefits of advanced modeling methods for estimation of intake levels likely to be associated with no significant cancer risk, including those in use by U.S. Environmental Protection Agency and CalEPA, versus traditional methods. Evaluates the quality of data related of physiology, pharmacokinetics, and metabolism for use in inter-species, inter-dose, and inter-route extrapolations. Develops models based on such information, including physiologically-based pharmacokinetic (PBPK) models. Develops biologically- based pharmacodynamics (BBPD) models if information related to a specific mode-of action is available.
- 10% Provides expert scientific support to the Office of the Attorney General on exposure-related issues for carcinogens. Identifies and evaluates issues related to exposure assessment having a bearing on Proposition 65 enforcement and/or litigation activity. Conducts multi-route exposure analyses on consumer and worker exposure of carcinogens to support safe use determinations.

Marginal Functions (Including percentage of time):

- 5% Conducts bill analyses, prepares articles for publication in scientific journals, organizes and participates in technical workshops of interest to the program, and presents at and participates in scientific meetings and conferences at the local and national level. Attends continuing education courses to maintain and further develop technical skills and expertise.
- 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.

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.



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Typical Working Conditions:

OEHHA has a hybrid work environment that includes work in an office setting in a downtown high-rise building and telework at home. The air-conditioned accommodations consist mainly of open areas furnished with cubicles. Not all areas have direct natural illumination. Time-critical assignments are part of the workload. This position requires extended periods of reading and writing, frequently using computer workstations, statistical and analytical computer packages, communication resources, and word processing software. Available to travel statewide and occasionally out of state. May be required to travel to other 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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Supervisor Statement

I certify this duty statement represents an accurate description of the essential functions of this position. I have discussed the duties of this position with the employee and provided the employee a copy of this duty statement.

Supervisor Name	Supervisor Signature	Date
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Employee Statement

I have discussed these duties with my supervisor and have been provided a copy of this duty statement. I certify I have read, understand, and can perform the duties of this position either with or without reasonable accommodation*.

**A Reasonable accommodation is any modification or adjustment made to a job, work environment, or employment practice or process that enables an individual with a disability or medical condition to perform the essential functions of his or her job or to enjoy an equal employment opportunity. (If you believe reasonable accommodation is necessary, check yes. If unsure of a need for reasonable accommodation, inform the hiring supervisor, who will discuss your concerns with the Reasonable Accommodation Coordinator.)*

Do you need a reasonable accommodation to perform the essential functions of this position?

YES NO

Employee Name	Employee Signature	Date
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