



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

DUTY STATEMENT

☐ CURRENT ☒ PROPOSED

RPA Number: DSP-002 FY 25-26	Classification Title: Research Scientist IV (Chemical Sciences)	Position Number: 811-114-5608-002
Incumbent Name:	Working Title: Pharmacokinetics Research Scientist	Effective Date:
Tenure: Permanent	Time Base: Full Time	Intermittent Hours Per Month:
Division/Office: Division of Scientific Programs	Section/Unit: New Toxicology Evaluations Section	Reporting Location: Sacramento or Oakland
Supervisor's Name: Anatoly Soshilov	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 New Toxicology Evaluations Section (NTES) at the Office of Environmental Health Hazard Assessment (OEHHA) provides essential information on the hazards and risks posed by chemicals in the environment and consumer products, as well as develop new and scientifically valid approaches for



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

Incumbent:
Classification: Research Scientist IV (Chemical Sciences)
Position Number: 811-114-5608-002

understanding chemical hazards. These evaluations may be used to establish guidance levels or priorities for chemicals in drinking water, air emissions, sport fish, waste sites, and emergency response actions, as well as safer substitutes for chemicals. NTES's work provides important state guidance for regulators, policymakers, and emergency responders on harmful chemicals that otherwise would remain unassessed.

Under administrative direction of the Senior Toxicologist, Chief of the New Toxicology Evaluations Section, the Research Scientist IV (Chemical Sciences), under the working title as Pharmacokinetics Research Scientist, plans and conducts original research into the development and application of novel risk assessment methods that augment OEHHA's ability to perform timely evaluations of unassessed chemicals that have little or no toxicology testing in laboratory animals; serves as a subject-matter expert in pharmacokinetics who makes independent decisions on the absorption, distribution, metabolism, and clearance of chemicals in human body and across human populations, as well as in the translation of complex data from in-vitro and other novel experimental systems to human exposures; applies new computational-toxicology approaches to develop hazard and dose-response assessments that can support regulatory standards for unassessed chemicals and chemical groups that are of high priority or emerging interest to California state agencies; and establishes collaborations with academic researchers on the development and refinement of novel risk assessment methods that use NAMs, works to build acceptance of these methods and results, and publishes scientific papers and technical reports. The Research Scientist IV (Chemical Sciences) will perform the following duties and other related work:

Essential Functions (Including percentage of time):

- 30% **Conduct research into novel pharmacokinetic methods.** Plan, organize, and direct original research into the use of pharmacokinetic methods and models to translate exposure levels of environmental chemicals to concentrations at sensitive target sites in the body. Use and refine computational and pharmacokinetic models to understand the relationship between biologically active chemicals in the body and adverse health effects. Facilitate the integration of information on metabolic pathways and kinetics in the development of read-across assessments to identify hazards and translate these data to predict human risks. Provide the pharmacokinetics expertise on an interdisciplinary team (toxicology, chemistry, biostatistics/bioinformatics, pharmacokinetics) to predict chemical toxicity from these data, including data from non-mammalian systems, high-throughput tests, key characteristics, and inferences based on "read-across" from related chemicals.
- 30% **Develop hazard and dose-response assessments for unassessed chemicals.** Apply new computational-toxicology approaches to develop hazard and dose-response assessments for unassessed chemicals and chemical groups with little or no toxicology testing in laboratory animals. Consult with various programs in the California Environmental Protection Agency and other state agencies to ensure that these assessments will meet their needs and can support regulatory standards. Refine these new approaches and assessments based on advice from an external advisory panel to ensure that the new approaches and assessments are scientifically sound and can support state action to protect public health. Present assessment methods and findings in scientific journals and at scientific meetings to build acceptance of the novel risk



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

Incumbent:
Classification: Research Scientist IV (Chemical Sciences)
Position Number: 811-114-5608-002

assessment methods and results.

- 15% **Manage external contracts on unassessed chemicals.** Develop and manage research contracts with the University of California and other research institutes to obtain consultation on predicting chemical toxicity, incorporating machine learning, analyzing large datasets on toxicity and toxicogenomics, developing data on human variation, developing tests for key characteristics, and addressing the pharmacokinetics of translating in-vitro tests to in-vivo human risks. Develop and monitor work plans that specify deliverables and timelines for successful completion of contractor obligations. Review data, reports, and invoices submitted by contractors and perform appropriate quality assurance and quality control.
- 15% **Collaborate with external researchers on novel toxicological methods.** Establish collaborations with academic researchers on the development of biological data on human variation in metabolism and kinetics for integration into the risk assessment framework. Coordinate and track the receipt of data and review scientific reports received from collaborating researchers. Consult and collaborate with federal scientists (e.g., National Toxicology Program, United States Environmental Protection Agency) on in-vitro to in-vivo extrapolation and other novel methods.

Marginal Functions (Including percentage of time):

- 5% Track progress in new tools and approaches at the state, federal and international levels by attending professional conferences and meetings, online or in-person seminars, and reviewing information from sources such as scientific journals, government publications, and other sources.
- 5% Attend 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. Work 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.

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.



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

Incumbent:
Classification: Research Scientist IV (Chemical Sciences)
Position Number: 811-114-5608-002

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:



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

Incumbent:
Classification: Research Scientist IV (Chemical Sciences)
Position Number: 811-114-5608-002

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

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