

DUTY STATEMENT

Employee Name:	Position Number: 581-723-5591-001
Classification: Research Scientist III (Chemical Sciences)	Tenure/Time Base: Permanent/Full-time
Working Title: Laboratory Analytical Scientist	Work Location: 850 Marina Bay Parkway, G365 Richmond, CA 94804
Collective Bargaining Unit: R10	Position Eligible for Telework (Yes/No): Yes
Center/Office/Division: Center for Laboratory Sciences/Division for Environmental Health Laboratories	Branch/Section/Unit: Food and Drug Laboratory Branch/Chemistry Section/Chemistry Research Unit

All employees shall possess the general qualifications, as described in California Code of Regulations Title 2, Section 172, which include, but are not limited to integrity, honesty, dependability, thoroughness, accuracy, good judgment, initiative, resourcefulness, and the ability to work cooperatively with others.

This position requires the incumbent to maintain consistent and regular attendance; communicate effectively (orally and in writing) 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 departmental policies and procedures.

All California Department of Public Health (CDPH) employees perform work that is of the utmost importance, where each employee is important in supporting and promoting an environment of equity, diversity, and inclusivity, essential to the delivery of the department's mission. All employees are valued and should understand that their contributions and the contributions of their team members derive from different cultures, backgrounds, and life experiences, supporting innovations in public health services and programs for California.

Competencies

The competencies required for this position are found on the classification specification for the classification noted above. Classification specifications are located on the [California Department of Human Resource's Job Descriptions webpage](#).

Job Summary

This position supports the California Department of Public Health's (CDPH) mission and strategic plan by promoting health and wellness and improving state health outcomes by advancing protective measures and reducing risk.

The incumbent works under the general direction of the Research Scientist Supervisor II (Chemical Sciences) RSSII (CS) in the Food and Drug Laboratory Branch (FDLB), Chemistry Section, Chemistry Research Unit. The Research Scientist III (Chemical Sciences) (RS II) plans, organizes, and carries out chemical science research studies of highly developed scientific scope and

complexity. The incumbent conceives and assists in the planning and conducting of scientific analytical studies of chemical contaminants present in food and drugs. The incumbent serves as a scientific technical consultant in the specialized area of food and drug research. The incumbent will cross-train on multiple instrument platforms to be an alternate operator for laboratory testing methods.

Special Requirements

- Conflict of Interest (COI)
- Background Check and/or Fingerprinting Clearance
- Medical Clearance
- Travel: Up to 5% travel may be required
- Bilingual: Pass a State written and/or verbal proficiency exam in
- License/Certification:
- Other:

Essential Functions (including percentage of time)

- 45% Independently conceives, plans, develops, organizes, and conducts complex multidisciplinary original scientific research studies and investigations on the identification of chemical contaminants and adulterants in foods and drugs in support of the US FDA Food Emergency Response Network (FERN). Scientific research study conclusions are used to improve detection and identification of chemicals and biochemicals, including toxic chemicals, metabolites, nutrients, and pharmaceuticals. The goal in scientific research studies is to validate and improve existing FERN methodologies and develop new laboratory analytical methods for testing and to interpret and analyze complex scientific data to identify and quantify the unknown constituents in laboratory samples that may be associated with human illness caused by emergency situations, real or hypothetical, either of natural or manmade causes. The incumbent assists in conceiving and conducting small to large-scale research projects to test specific hypotheses concerning exposures to chemical contaminants in foods and drugs and performs difficult chemical analysis of samples of foods and drugs using inductively-coupled plasma/mass spectrometry (ICP/MS), gas chromatography-mass spectrometry (GC-MS), liquid chromatography (LC), liquid chromatography-mass spectrometry/mass spectrometry (LC-MS/MS), and other sophisticated instrumentation. Collaborates with USFDA/FERN staff in joint CDPH-FDA sponsored scientific research projects. Prepares scientific research progress reports and submits scientific research studies for publication.
- 35% Serves as a chemical sciences professional consultant to FERN on food and drug chemical contamination identification methods. Communicates with US FDA scientists on the best methods to identify chemical contamination through laboratory testing. Serves as a member of the quality control committee for the laboratory and develops standard operating procedures for laboratory quality assurance programs.
- 15% Conducts quality assurance review of other laboratory chemists' work and laboratory reports. Provides training and assistance to other chemists in the research use of ICP/MS, gas chromatography-mass spectrometry (GC/MS), high performance liquid chromatography (HPLC), and LC/MS/MS.

Marginal Functions (including percentage of time)

5% Other work related duties as required.

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

I have read and understand the duties and requirements listed above and am able to perform these duties with or without reasonable accommodation. (If you believe reasonable accommodation may be necessary, or if unsure of a need for reasonable accommodation, inform the hiring supervisor.)

Supervisor’s Name: Dadong Xu, Ph.D.	Date	Employee’s Name:	Date
Supervisor’s Signature	Date	Employee’s Signature	Date

HRD Use Only:
 Approved By: AC
 Date: 12/2024