

DUTY STATEMENT

Employee Name:	Position Number: 580-353-5594-010
Classification: Research Scientist III (Epi/Bio)	Tenure/Time Base: Permanent/Full-Time
Working Title: Wildfire Smoke Illness Surveillance Scientist	Work Location: 850 Marina Bay Parkway, P, 3 rd Floor Richmond, CA 94804
Collective Bargaining Unit: R10	Position Eligible for Telework (Yes/No): Yes
Center/Office/Division: Center for Healthy Communities	Branch/Section/Unit: Environmental Health Investigations Branch/ Exposure Investigations Section/ Climate Change & Health 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 protecting the health of vulnerable residents and communities from harmful environmental exposures from air pollution, particularly from wildfire smoke, a climate change related impact.

The incumbent works under the general direction of the Climate Change and Health Unit Chief, in the Environmental Health Investigations Branch (EHIB). The Research Scientist III (RSIII) develops the surveillance methodology for wildfire-related air pollution illness and conducts environmental health epidemiologic research analyses of priority public health impacts related to air pollution and climate

change-associated health outcomes. The incumbent identifies sources of health and exposure data, develops processes for capturing, managing, and analyzing data, and develops and disseminates findings in reports, publications, and presentations. The RSIII acts as a subject matter expert, providing consultation within CDPH and externally as needed. The incumbent exercises a high degree of initiative and flexibility in a substantial decision-making role and works collaboratively in interdisciplinary teams within CDPH and externally with other scientists and agencies.'

Special Requirements

- Conflict of Interest (COI)
- Background Check and/or Fingerprinting Clearance
- Medical Clearance
- Travel: Up to 15%, in-state, with the possibility of overnight stay
- Bilingual: Pass a State written and/or verbal proficiency exam in
- License/Certification:
- Other:

Essential Functions (including percentage of time)

- 40% Develops scientific and technical approach to establish surveillance of wildfire-related particulate air pollution illness and conduct environmental health research and epidemiologic analyses to characterize priority public health impacts related to air pollution. Reviews literature to identify health outcomes and diagnostic codes relevant to wildfire smoke and air pollution; identifies sources of health and exposure data appropriate for surveillance and analysis; develops processes and protocols for capturing and analyzing data. Develops queries and routines for surveillance data analysis and methods to describe statewide monitoring trends. Oversees data management, quality control, and cleaning. Develops and utilizes methods to integrate wildfire and other air pollution data sources, e.g., monitored, modeled and remote sensed data, to ensure high degree of exposure accuracy and spatial resolution at a public health relevant scale. Conducts targeted scientific analyses designed to address key public health questions related to wildfire, air pollution and other climate health outcomes, which may involve high-level programming, statistical and GIS methods.
- 25% Disseminates surveillance and research results; prepares and submits articles for publication in scientific and technical journals and project reports to inform public health recommendations to reduce morbidity and mortality. Presents findings at stakeholder and community meetings. Creates collaborations with public health counterparts and the scientific health and air pollution research communities to stay abreast of advances in scientific knowledge to inform epidemiological and other methodological approaches.
- 20% Communicates with key stakeholders to identify priorities for surveillance data needs, data products, business objects for data dashboard, communication needs, and opportunities for interventions. Evaluates potential of other surveillance efforts as models or for integration. Collaborates with other public health entities to strengthen syndromic surveillance practice. Develops stakeholder collaborations to acquire/access data.
- 10% Serves as subject matter expert within the Branch and CDPH; responds to requests for technical assistance in support of LHDs and other external entities as needed. Collaborates and

coordinates on projects with other CDPH staff who address climate change related health issues. Contributes expertise in development of visual representations of wildfire and other climate health interactive dashboards.

Marginal Functions (including percentage of time)

5% Participates in EHIB’s and CDPH’s emergency preparedness efforts and EHIB’s Public Inquiry Program; other job-related duties as assigned.

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:	Date	Employee’s Name:	Date
Supervisor’s Signature	Date	Employee’s Signature	Date
HRD Use Only: Approved By: J.F.	Date Nov. 22		