State of California GOVERNOR'S OFFICE OF EMERGENCY SERVICES **POSITION DUTY STATEMENT**

BU: 2, 7, & Non-represented

EMPLOYEE	CLASS TITLE:	HEADQUARTERS:				
	Information Technology Specialist III	Mather Campus				
PROGRAM/UNIT:	POSITION NUMBER:	CBID:				
Information Technology	778-1415-xxx	M01				
Data and Geospatial Unit						
TENURE:	TIME BASE:	WORK WEEK GROUP:				
Permanent		E				
APPT. EFFECTIVE DATE:	RANGE (IF APPLICABLE):	PROBATIONARY PERIOD:				
IMMEDIATE SUPERVISOR:	CONFLICT OF INTEREST CATEGORY:	DMV PULL PROGRAM:				
1. SUPERVISION RECEIVED:						
	alist III (ITS III), Geospatial Data Scientist	is under the				
÷	rmation Technology Manager II, Data (
2. SUPERVISION EXERCISED:						
N/A						
3. PHYSICAL DEMANDS (SEE ADDITION	NAL PAGES):					
	ended periods at a computer worksta					
0	ntrol. The incumbent will work a minimu	•				
	of an emergency. Ability to use a perso					
•	rk is performed in utilizing these tools. T					
	Must be able to lift computer equipme	ent and related items that weight				
up to 50 pounds.						
•	APLOYEE MAY BE IN CONTACT WITH WH					
	et with department managers and supe					
	eral government relating to the evalua					
	emergency operations. This position n					
	providing goods or services to Cal OES					
	ort on regular status and IT reporting rea	quirements.				
5. ACTIONS AND CONSEQUENCES (AS RELATED TO DUTIES PERFORMED):						
The California Governor's Office of Emergency Services (Cal OES) is responsible for disaster response,						
planning, preparedness and training. This position holds a high-level responsibility for the security and						
integrity of publically displayed information. Failure to effectively perform the duties of the position could						
	or the mission and the organization.					
	ATION/OPERATIONAL ASSIGNMENT 100					
When requested to fill an operational assignment and until demobilized, the following duties will be						
performed, and your regular dufie	performed, and your regular duties may temporarily cease:					
May be required to work in the Ste	to Operations Conter (COC) Decion Fr	norman av On aratiana Cantar				
May be required to work in the State Operations Center (SOC), Region Emergency Operations Center						
(REOC), Joint Field Office (JFO), Area Field Office (AFO), Local Assistance Center (LAC), or other						
location to provide assistance in emergency response and recovery activities. All staff is required to						
complete operational related training and participate in one of three Readiness Teams that rotate						
activation availability on a monthly basis if not assigned to an Operational Branch (e.g., Fire/Law/Region). May be required to participate in emergency drills, training and exercises.						
Staff need to work effectively under	er stressful conditions: work effectively 8	& cooperatively under the				
Staff need to work effectively under stressful conditions; work effectively & cooperatively under the pressure of short leave time; work weekends, holidays, extended and rotating shifts (day/night).						
Statewide travel may also be required for extended periods of time and on short notice.						
Statewide travel may also be reau	-					

(CONTIN	(CONTINUED) EMERGENCY OPERATIONS - ACTIVATION/OPERATIONAL ASSIGNMENT 100%:					
"position	While fulfilling an operational assignment it is important to understand that you are filling a specific "position" and that position reports to a specific Incident Command System (ICS) hierarchy. This is the chain of command that you report to while on this interim assignment.					
On Call/S	On Call/Standby/Duty Officer (if applicable)					
immedia Warning	ed on-call, standby or as a Duty Officer, you are required to be ready and able to respond tely to any contact by Cal OES Management (including contact from the State of California Center) and report to work in a fit and able condition if necessary as requested.					
The ITS III analyze manage solutions mathem create v	CRIPTION/GENERAL STATEMENT: I, Geospatial Data Scientist develops and applies methods to identify, collect, process, and large volumes of data to build and enhance products, processes, and systems for emergency ement. The incumbent will work in a dynamic environment to deliver interoperable Department . The Geospatial Data Scientist will conduct data mining and retrieval, and apply statistical and natical analyses to identify trends, solve analytical problems, develop predictive models, and isualizations that anyone can use. The Geospatial Data Scientist will apply the application of ning, statistics and visualization to glean insights from large and disparate data sources.					
a leader and GIS assist in c	mbent requires expert-level knowledge and hands-on experience in data science. Performing in ship role on the Data and Geospatial team, the incumbent will work with architects, engineers, analysts to deliver complex algorithms, explanatory and predictive models, and visualizations to disaster preparedness, response, and recovery. The incumbent will initiate, build and maintain onal relationships with internal and external Cal OES partners to collaborate on providing quality.					
Percent of Time	ESSENTIAL FUNCTIONS					
35%	(E) PLANNING AND DESIGN As a strategic problem solver, the ITS III, Geospatial Data Scientist will understand the unique needs of Cal OES programs and equip them with an understanding of their data, including trends and insights to help them plan, respond to, and recover from disasters. The ITS III will define and execute a data science strategy and roadmap to achieve program objectives. In collaboration with program staff, the incumbent will build predictive models to inform Cal OES's strategy for emergency management. Serving as a technical expert in data modeling techniques, the ITS III will apply complex data modeling theories and techniques to support projects, and will oversee the data analysis and visualization activities of GIS analysts and developers on their projects. This position requires effective communication to all levels of the Department, and externally with other State departments and organizations.					
35%	(E) APPLIED PROGRAMMING The ITS III Geospatial Data Scientist will apply programming and/or manipulation of data with programming languages such as Python, R, and SQL. The incumbent will develop and deploy automated processes to identify, collect, process, and analyze large data sets. Data visualizations for exploratory comparative analysis using scripts, algorithms, and predictive models will be created. Analytic techniques such as classification, regression, similarity matching, clustering, co-occurrence grouping, link prediction, data reduction and causal modeling will be applied. Visualization techniques and software tools such as Tableau will be used.					
25%	(E) TRAINING AND CONSULTATION The ITS III Geospatial Data Scientist will communicate technically complex methods and solutions to non-technical audiences verbally and in writing. The incumbent will consult with program staff to ensure their analytics are statistically sound. Advice and guidance will be provided on the correct use of methodology, including obtaining or generating the necessary					

Percent of Time	MARGINAL FUNCTIONS							
5%	(M) Other related duties as assigned. Will participate in training exercises and emergency response activities of State, regional and local Emergency Operations Centers; and performing other duties that are necessary and essential to support Cal OES IT programs. Travel throughout the State could be required during disaster events in California.							
PHYSICAL AND MENTAL REQUIREMENTS OF ESSENTIAL FUNCTIONS								
	Activity	Not Required	Less than 25%	25% to 49%	50% to 74%	75% or More		
proofreading	iewing mail; preparing various forms; documents; reading printed nputer screens, and handwritten							
verbal inform	Answering telephones; receiving ation from outside sources; g verbal instruction.							
	Receiving visitors; answering inquiries g verbal information or instruction.							
picking up m	T: Delivering material to others; aterials from others; copying; faxing; formation; filing.							
	a computer terminal or desk; th employees.							
standing:				\square				
BALANCIN	G:			\square				
records/docu analyzes, cor	RATING: Reviews and reads uments, researches, composes, npiles, and updates technical multi-tasking; prepares various forms .nts.				\boxtimes			
co-workers, c	ENSION: Understanding needs of lients; understands procedures and derstands laws, regulations related							
to work indep member, hav communicat take initiative good judgme alone withou	NDEPENDENTLY: Possesses ability bendently as well as a team we good interpersonal and ion skills, ability to follow directions, assume responsibility, and exercise ent and tact. Must be able to work t much guidance or interaction or om other staff.							

PHYSICAL AND MENTAL REQUIREMENTS OF ESSENTIAL FUNCTIONS							
Activity	Not Required	Less than 25%	25% to 49%	50% to 74%	75% or More		
LIFTING UP TO 10 LBS. OCCASIONALLY:				\square			
LIFTING UP TO 20 LBS. OCCASIONALLY AND/OR 10 LBS. FREQUENTLY:		\boxtimes					
LIFTING UP TO 20-50 LBS. OCCASIONALLY AND/OR 25-50 LBS. FREQUENTLY:		\boxtimes					
FINGERING: Pushing buttons on telephone; typing; copying.					\boxtimes		
REACHING: Answering phones.			\boxtimes				
CARRYING: Distributing mail; reports; stocking supplies.		\boxtimes					
CLIMBING: stairs		\boxtimes					
BENDING AT WAIST:		\boxtimes					
KNEELING:		\boxtimes					
PUSHING OR PULLING:			\boxtimes				
HANDLING: Documents, manuals			\boxtimes				
DRIVING:		\boxtimes					
OPERATING EQUIPMENT: Computer; telephone; copy machine; fax.					\boxtimes		
WORKING INDOORS:					\boxtimes		
WORKING OUTDOORS:		\boxtimes					
WORKING IN CONFINED SPACE: Enclosed office environment.					\boxtimes		

OTHER INFORMATION

Must have knowledge of the state and related federal laws, rules, regulations, policies and procedures. Must exercise good writing skills; follow oral and written directions, be responsive to the needs of the public and employees of Cal OES and other agencies; analyze situations and take effective action using initiative, resourcefulness, and good judgment. May need to work with limited supervision.

Consistent with good customer service practices and the goals of the Cal OES Strategic Plan, the incumbent is expected to be courteous and provide timely responses to internal and external customers, follow through on commitments, and solicit and consider internal and external customer input when completing work assignments.

SIGNATURES

Certification of Applicant/Employee

Note – If any concerns with performing the duties of this position with or without reasonable accommodation, discuss your concerns with the hiring supervisor, who in turn, will discuss with the Reasonable Accommodation Coordinator.

I certify that I possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties as described above with or without reasonable accommodation.

I have read and discussed these duties with my supervisor:

Employee's Signature

Date

I certify that the above accurately represents the duties of the position:

Supervisor's Signature

Date

Civil Service Title