DUTY STATEMENT

TECH 052 (REV. 02/2018)

PROPOSED

RPA NUMBER (HR USE ONLY)

24-144

ALERT: This form is mandatory for all Requests for Personnel Action (RPA). INSTRUCTIONS: Before completing this form, read the instructions located on last page.			
Section A: Position	on Profile		
A. DATE 02/01/2025	B. APPOINTMENT EFFECTIVE DATE	C. INCUMBENT NAME Vacant	
D. CIVIL SERVICE CLASSIFICATION		E. POSITION WORKING TITLE	
Information Technology Manager I		System Administrator	
F. CURRENT POSITION NUMBER		G. PROPOSED POSITION NUMBER (Last three (3) digits assigned by HR)	
695-331-1405-002			
H. OFFICE / SECTION / UNIT / PHYSICAL LOCATION OF POSITION		I. SUPERVISOR NAME AND CLASSIFICATION	
Office of Information Security (OIS)/ Security Operations/ Security Solutions Administration/ Rancho Cordova		Conrad Long, Information Technology Manager II (IT Mgr II)	
J. WORK DAYS / WORK HOL	JRS / WORK SHIFT (DAY, SWING, GRAVE)	K. POSITION FINGERPRINT BACKGROUND CHECK YES NO	
MONDAY – FRIDAY/ 8:00AM – 5:00PM/ DAY		REQUIRES: DRIVING AN AUTOMOBILE YES NO	
Section B: Position Identify the major function	on Functions and Duties s and associated duties, and the percentage of	time spent annually on each (list higher percentages first).	
	Information Technology Domain	NS (Select all domains applicable to the incumbent's duties/tasks.)	
	□ Business Technology Management		
		☐ Software Engineering ☐ System Engineering	
	Organizational Setting and Majo	or Functions	
% of time	Under general direction of the Office of Information Technology Manager II (I' and managerial guidance for the administration security systems and served The IT Mgr I ensures the appropriate and operational for the computing and Technology (CDT)/OIS and provided The incumbent is responsible for worklevels, which includes the CDT, and of maintain appropriate vulnerability assecurity incidents. The IT Mgr I must relevant IT security infrastructure and applicable State/ Federal and industry security, understanding of department vulnerability and threat management must develop and maintain mastery lemanagement processes and technology of all of those and more. Security best	of Information Security (OIS) Security Operations (SecOps) T Mgr II), the IT Manager I (IT Mgr I) provides the technical inistration, monitoring, maintenance, and support of ices managed by Security Solutions Administration (SSA). security monitoring, compliance and controls are established d network services used by the California Department of	
performing duties 55%	 Develop strategy and manag maintain critical Security Ope to: Security Information and E Automation and Response (S Integration and Continuous D endpoint protection technology protection technologies, 0-da (sandboxing, behavioral mon Data Loss Prevention (DLP) In conjunction with the Securing Implementation of playbook s security events. Apply expert-level knowledge 	e the Security Solutions Administration team that monitor and erations Center (SOC) technologies including but not limited Event Management (SIEM) services, Security Orchestration, SOAR) tools, cloud platform administration, Continuous Delivery (CI/CD), infrastructure as code management, gies, intrusion detection and protection devices, host-based y and Advanced Persistent Threat (APT) technologies itoring, etc.), packet capture and metadata analytic systems, technologies, email hygiene systems, etc. ity Operations manager, manage the development and scripts that detail the steps to be taken for specific, indicated etc. but not limited to threat tactics/techniques/procedures in-	

- depth knowledge of security network architecture, in-depth knowledge of IT platform operations (e.g. Windows, Linux, Advanced Interactive eXecutive [AIX], network devices), vulnerability exploits and management, methods of access and related controls, encryption technologies, etc.
- Produce metrics and reports as instructed or as needed to adequately reflect the operational status of SSA utilized by the SOC, and the resources engaged.
- Participate in the procurement and engagement of outsourced security resources as needed.
- Maintain the highest level of expertise in security operations technologies, techniques and processes as well as threat actor techniques and operations.
- Develop and maintain an expert level of threat knowledge, malicious actor techniques, indicators or compromise, analytic techniques and methods, and Security Operations workflow processes.
- Develop and maintain an expert knowledge of operating systems, network architecture and protocols security devices, database management systems, system design, implementation, and testing, as well as interoperability and interdependency issues.
- Develop and maintain expert-level knowledge of security best practices and regulatory requirements cloud SaaS and Paas solutions.
- Attend formal training and conferences as well as perform personal research of periodicals, journals, the Internet, etc. in order to develop and maintain mastery level knowledge.

Team Building

- Advocate team building; work cooperatively and collaboratively with other supervisors and managers; ensure a positive climate for change; facilitate cross training, as well as fostering and mentoring for knowledge transfer; implement solution-oriented supervisor style that respects, encourages, includes, and promotes the interests of subordinate staff.
- Ensure all SSA team staff are trained in security incident response processes.
- Provide expert advice and high level/ complex technical expertise on system security software, controls, security practice, and Data Center security standards to the CDT and statewide stakeholders.
- Assist with the Administration team's ongoing workload related to service tickets, change requests and other Information Technology Service Management (ITSM) processes.
- Participate in the development of and present complex material including position papers, concept papers, and budget change proposals.

Governance

- Assist in the development of the information security policies, standards, and procedures reflecting new technology solutions and changes in Security Operations standards and/or processes.
- Direct reoccurring assessments and remediation efforts required to maintain system compliance with appropriate control sets and best practices.
- Lead SSA staff to develop, update, and maintain annual documentation related to IT security systems such as BIA, TRP, etc.
- Assure adherence to security change control requirements and processes.
- Manage external engagement including scheduling, project management, agile development and coordination with technical staff across the CDT and customer departments to facilitate onboarding of logs and machine data.
- Manage technology evaluations, implementations, and administration.

Participate in Security Operations activities as a threat and security subject matter expert.

- Participate in the development and maintenance of all necessary Security Operations policies, procedures, documents, and other artifacts as needed to operate and grow a successful security operations function.
- Represent the SSA group as required in both internal and external meetings and engagements.
- Serve as the manager of staff in the investigation of system problems, tracking, resolution, and reporting to CDT management, oversight agencies, and customers as required.

Supervise Security Solutions Administration Staff working to support Security Operations.

• Participate in post-incident reviews to ensure that Security Operations tools are operating effectively and make modifications or enhancements as required.

20%

20%

Marginal Functions (Percentages shall be in increments of 5, and should be no more than 5%)

Represent SSA as required at both internal and external meetings (e.g. customer meetings, the California Information Security Office (CISO), and other statewide workgroups). Keeping abreast of cybersecurity technologies and techniques, operating systems, network protection technologies, cloud services, system architecture, systems development lifecycle, and risk management. Develop and present complex material including: issue memos; position papers; budget change proposals, and feasibility study reports. Perform other related duties.

Work Environment Requirements

The incumbent works in an office environment and is required to operate a personal computer (word processor, spreadsheet, e-mail communication, presentation, and diagramming applications); use technical software for monitoring a variety of security-related items; and copy machine, fax machine, telephone system. Must pass a fingerprint background check completed by the Department of Justice (DOJ) and Federal Bureau of Investigation (FBI) and obtain Secret-level Clearance.

This position may be eligible for telework in accordance with CDT's Telework policy:

- Required to support a work-from-home environment.
- Expected to maintain a secure workspace within their home and support necessary logistical requirements to support remote video conferencing and remote work.
- Maintain a secure work from home environment for all work materials to ensure they are not misused, lost, damaged, stolen or improperly disclosed.

Allocation Factors (Complete each of the following factors.)

Supervision Received:

The incumbent works under general direction of the OIS Security Operations Chief, IT Mgr II. The incumbent is expected to direct and manage the completion of assignments by technical staff from general parameters, and is expected to prioritize workload and assignments within Security Solutions.

The incumbent is responsible for reporting progress, problems and changes in priority or schedules within SSA and to CDT executive management as required. The incumbent is responsible for staff development and cross-training to ensure critical functions are staffed appropriately. The incumbent is required to operate with a high degree of independence in performing all duties.

Actions and Consequences:

The incumbent is responsible for ensuring appropriate security controls are in place and enforced throughout the CDT for all hosted applications and computing resources. The Information Technology Manager I will assist management in developing and maintaining confidentiality, integrity and availability of the CDT and customer assets to ensure compliance with the State Administrative Manual and Federal mandates. The incumbent must use appropriate discretion and maintain confidentiality when processing confidential, sensitive or personal information. Failure to successfully implement these responsibilities could result in severe consequences including the loss or compromise of critical data or State IT assets.

Personal Contacts:

The incumbent is in personal contact with a wide variety of technical, administrative and CDT executive staff on a daily basis. External contacts include CDT customers, CISO and senior management within customer departments.

Administrative and Supervisory Responsibilities Indicate "None" if this is a non-supervisory position.) The IT Mgr I will advise the IT Mgr II in planning, budgeting, staffing, and operational activities of Security Operations. The IT Mgr I will serve as part of the management team of the Security Monitoring and Intelligence (SMI) group helping to set the strategy and direction of that function as it expands and grows more complex. The incumbent will represent the CDT Security Solutions at customer meetings and is expected to participate as required in statewide workgroups on security efforts within the state.

Supervision Exercised:

The IT Mgr I will manage staff within the Security Solutions Administration team.

Other Information

Desirable Qualifications: (List in order of importance.)

- Ability to interpret and incorporate data from multiple tool sources.
- Skill in supervising technical staff and accomplishing work through their and their staff's efforts.

- Skill in collecting data from a variety of computer network defense resources.
- Skill in conducting open-source research for troubleshooting client-level problems.
- Skill in conducting vulnerability scans and recognizing vulnerabilities in security systems.
- Skill in configuring and utilizing network protection components (e.g., firewalls, Virtual Private Networks [VPNs], network access control [NAC] devices, network Intrusion Detection Systems [IDSs]).
- Skill in detecting host and network-based intrusions via intrusion detection technologies (e.g., Snort).
- Skill in identifying common encoding techniques (e.g., Exclusive Disjunction [XOR], American Standard Code for Information Interchange [ASCII], Unicode, Base64, Uuencode, Uniform Resource Locator [URL] encode).
- Skill in network mapping and recreating network topologies.
- Skill in performing packet-level analysis using appropriate tools (e.g., Wireshark, tcpdump).
- Skill in reading and interpreting signatures (e.g., Snort).
- Skill in recognizing and categorizing types of vulnerabilities and associated attacks.
- Skill in using incident handling methodologies.
- Skill in using network analysis tools to identify vulnerabilities.
- · Knowledge of Zero Trust architecture.
- Knowledge of applicable laws (e.g., Electronic Communications Privacy Act, Foreign Intelligence Surveillance Act, Protect America Act, search and seizure laws, civil liberties and privacy laws), U.S. Statutes (e.g., in Titles 10, 18, 32, 50 in U.S. Code).
- Knowledge of basic system administration, network, and operating system hardening techniques.
- Knowledge of collection management processes, capabilities, and limitations.
- Knowledge of common adversary tactics, techniques, and procedures (TTPs) in assigned area of responsibility (e.g., historical country-specific TTPs, emerging capabilities).
- Knowledge of common network tools (e.g., ping, traceroute, nslookup).
- Knowledge of computer network defense (CND) and vulnerability assessment tools, including open-source tools, and their capabilities.
- Knowledge of computer network defense (CND) policies, procedures, and regulations.
- Knowledge of content development.
- Knowledge of cryptology.
- Knowledge of defense-in-depth principles and network security architecture.
- Knowledge of different classes of attacks (e.g., passive, active, insider, close-in, distribution).
- Knowledge of different operational threat environments (e.g., first generation [script kiddies], second generation [non-nation state sponsored], and third generation [nation state sponsored]).
- Knowledge of different types of network communication (e.g., Local Area Network [LAN], Wide Area Network [WAN], Metropolitan Area Network [MAN], Wireless Local Area Network [WLAN], Wireless Wide Area Network [WWAN]).
- Knowledge of encryption methodologies.
- Knowledge of front-end collection systems, including network traffic collection, filtering, and selection.
- Knowledge of general attack stages (e.g., footprinting and scanning, enumeration, gaining access, escalation of privileges, maintaining access, network exploitation, covering tracks).
- Knowledge of host/network access controls (e.g., access control list).
- Knowledge of how to troubleshoot basic systems and identify operating systems-related issues.
- Knowledge of how traffic flows across the network (e.g., Transmission Control Protocol and Internet Protocol [TCP/IP], Open System Interconnection model [OSI], Information Technology Infrastructure Library, v3 [ITIL]).
- Knowledge of incident response and handling methodologies.
- Knowledge of information assurance (IA) principles and organizational requirements that are relevant to confidentiality, integrity, availability, authentication, and non-repudiation.
- Knowledge of intrusion detection methodologies and techniques for detecting host- and network-based intrusions via intrusion detection technologies.
- Knowledge of Intrusion Detection System (IDS) tools and applications.

- Knowledge of network protocols (e.g., Transmission Control Protocol and Internet Protocol [TCP/IP], Dynamic Host Configuration Protocol [DHCP]) and directory services (e.g., Domain Name System [DNS]).
- Knowledge of network security architecture concepts, including topology, protocols, components, and principles (e.g., application of defense-in-depth).
- Knowledge of network traffic analysis methods.
- Knowledge of new and emerging information technology (IT) and information security technologies.
- Knowledge of penetration testing principles, tools, and techniques (e.g., metasploit, neosploit).
- Knowledge of policy-based and risk adaptive access controls.
- Knowledge of programming language structures and logic.
- · Knowledge of security management.
- Knowledge of system and application security threats and vulnerabilities (e.g., buffer overflow, mobile code, cross-site scripting, Procedural Language/Structured Query Language [PL/SQL] and injections, race conditions, covert channel, replay, return-oriented attacks, malicious code).
- Knowledge of the common attack vectors on the network layer.
- Knowledge of the computer network defense (CND) service provider reporting structure and processes within one's own organization.
- Knowledge of Unix command line (e.g., mkdir, mv, ls, passwd, grep).
- Knowledge of what constitutes a network attack and the relationship to both threats and vulnerabilities.
- Knowledge of Windows command line (e.g., ipconfig, netstat, dir, nbtstat).
- Knowledge of Windows/Unix ports and services.

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INCUMBENT STATEMENT: I have discussed the duties of this position with my supervisor and have received a copy of the duty statement.				
INCUMBENT NAME (PRINT)	INCUMBENT SIGNATURE	DATE		
SUPERVISOR STATEMENT: I have discussed the duties of this position with the incumbent.				
SUPERVISOR NAME (PRINT)	SUPERVISOR SIGNATURE	DATE		