## CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION

POSITION DUTY STATEMENT

## PROPOSED

X CURRENT

CDCR INSTITUTION OR HEADQUARTERS PROGRAM	POSITION NUMBE	R (Agency-Unit-Class	-Serial)			
ENTERPRISE INFORMATION SERVICES	065-625-1414	-002				
DIVISION / UNIT	CLASSIFICATION T	TLE				
	INFORMATION TECHNOLOGY SPECIALIST II					
	WORKING TITLE					
Enterprise Information Services	PLATFORM / ENGINEER SPECIALIST					
Offender Management Solutions (Middle Tier/DevOps)	TIME BASE / TENURE	CBID WW0			COI	
	FULL TIME /	504	_			
	PERM	R01	E		Yes 🛛 No 🗌	
LOCATION	INCUMBENT EFFECTIVE DATE					
Birkmont Drive, Rancho Cordova, CA				4/22/2	2025	
CDCR'S MISSION and VISION						
Vision						
We enhance public safety and promote successful community re	integration throu	gh education, tro	eatment	and activ	ve	
participation in rehabilitative and restorative justice programs.						
Mission						
To facilitate the successful reintegration of the individuals in our	care back to thei	r communities e	quipped	with the	tools to be	
drug-free, healthy, and employable members of society by provid	ding education, tr	eatment, rehabi	litative, a	and resto	orative justice	
programs, all in a safe and humane environment.						
CALIFORNIA MODEL						
California Department of Corrections and Rehabilitation (CDCR) a	and the California	Correctional He	alth Care	e Services	s (CCHCS) are	
proud to partner on the California Model which will transform th	e correctional lar	ndscape for our e	employee	es and th	e incarcerated.	
The California Model is a systemwide change that leverages nation	onal and internat	ional best praction	ces to ad	dress lon	ngstanding	
challenges related to incarceration and institution working condi	-				-	
all staff, as well as rehabilitation for the incarcerated. Additionall	y, the California I	Model improves	success o	of the de	carcerated	
through robust re-entry efforts back into the community.						
COMMITMENT TO DIVERSITY, EQUITY, AND INCLUSION						
The California Department of Corrections and Rehabilitation (CD	CR) and California	Correctional He	ealth Car	e Service	s (CCHCS) are	
committed to building and fostering a diverse workplace. We bel	ieve cultural dive	rsity, backgroun	ds, expei	riences, p	perspectives,	
and unique identities should be honored, valued, and supported.		aff should be em	npowere	d. CDCR/	CCHCS are	
proud to foster inclusion and representation at all levels of both	Departments.					
DIVISION OVERVIEW						
Enterprise Information Services (EIS) is the catalyst that drives tra						
drive operation efficiency. EIS provides a full range of information	• • • •		•		includes	
Information Security, IT Procurement, Infrastructure, software de	evelopment, impl	ementation and	support			
GENERAL STATEMENT						
Under general direction of the Information Technology Manager		-				
Technology Specialist II works independently as the recognized						
development and maintenance of the CDCR Kubernetes Platform						
implementation of the platform, enterprise applications, data, and security configurations. Maintain a working level knowledge of						
security best practices and regulatory requirements.						
Work independently and as a workgroup leader to oversee security and all design and design review for new technology and/or						
service implementations and changes to existing infrastructure ensuring that all designs and implementations are done in						
accordance with industry and vendor best practices and in compliance with State security policies.						
The incumbents demonstrate a depth of leadership and expertise in Software, Device, Data Base, System and Information						
Security Engineering and perform a wide variety of tasks requiring innovative problem solving where guidance is not readily						
available, and the incumbent is expected to be at subject matter expert level in the functional technology domains. The						
Information Technology Specialist II will be expected to take projects from concept to operations using Agile methodology.						
INFORMATION TECHNOLOGY DOMAINS – PLACE AN "X" ON ALL APPLICABLE DO	JIVIAIINS					

	Business T	echnology Management		Client Services	x	Information Security Engineering			
x	Y Information Technology Project		x	Software Engineering	x	System Engineering			
	Managem								
% of				s assigned to the position and the percentage o	f time	spent on each. Group related tasks under the			
perfo	forming duties same percentage with the highest percentage first.								
	30%	PLATFORM ENGINEERIN							
				o the application development teams, a					
		applications and collabor	ating	ting with stakeholders across the organization. Attends development team meetings essions, applying enterprise-wide application design standards and ensuring th business requirements. Identifies technical design risks and develops mitigation estimating effort levels for technical aspects of solutions and designs. Maximizes the					
		and design/code review s	sessio						
		architectural alignment w	vith b						
		strategies. Participates in	estin						
		value of enterprise applic	ation	s by fully utilizing their features and im	ilizing their features and implementing platforms according to their				
				ethodologies to deliver scalable, high-r					
			-	ons to meet business objectives. Platfo					
				leveloping comprehensive platform sol					
				requirements into technical solutions, o					
				ensuring the overall system architecture is efficient and scalable; they typically					
				g of various software technologies, solu					
		principles to guide the de	evelop	ment process strategically. Duties incluin	ude b	out are not limited to:			
	<ul> <li>Design, implement, and manage scalable containerized applications using Docker and Kuberner</li> </ul>								
	<ul> <li>Design, implement, and manage scalable containenzed applications using <b>Docker</b> and <b>Rubernetes</b>.</li> <li>Develop and maintain CI/CD pipelines for the platform's deployment and automation.</li> </ul>								
	<ul> <li>Develop and maintain Cr/CD pipelines for the platform's deployment and automation.</li> <li>Monitor and optimize the platform's performance, ensuring high availability and stability.</li> </ul>								
		<ul> <li>Support development teams working on the Vue3/Vuetify and Node stacks, assisting with platform integration and deployment.</li> </ul>							
		<ul> <li>Provide platform support, including troubleshooting, issue resolution, and proactive improvements.</li> <li>Design scalable, reliable infrastructure to support application workloads.</li> </ul>							
	<ul> <li>Use observability tools to monitor system performance, identify issues and apply fixes proactively</li> </ul>								
		<ul> <li>Evaluate new tools and integrate them into the platform for continuous improvement.</li> <li>Work collaboratively with other Enterprise Architects to develop interfaces with other systems, security appliances, servers, devices (virtual &amp; hardware), and databases.</li> </ul>							
	Create architecture and design diagrams and other required documentation.								
		Technical Expertise in modern mobile application languages and tools including JavaScript,							
	-			, React.js, Node.js, Express.js, and NoSQL database systems.					
	<ul> <li>Monitor and asse security statuses.</li> <li>Performs risk asse</li> </ul>			ses security controls, conducts security impact analyses, and reports system					
			essme	ssments and recommends IT solutions; analyze incidents and determines the					
			onse; design and adopt new technologies, architectures, and solutions to support						
	security requirements								
Function as a leader for security for the Platform E				security for the Platform Engineering 1	Геат	and works with CDCR and CDT ISO			
	organizations to provide input when necessary.								
<ul> <li>Responsible for secure design, best practices and application hardenin</li> <li>Expertise in Agile Development Methodology, responsible for ensuring</li> </ul>				design, best practices and application l	harde	ning to ensure system integrity.			
1		<ul> <li>Responsibility to maintain the code repositories, currently the GitHub Enterprise</li> </ul>				-			
	implementation. <ul> <li>Develop and evolve</li> </ul>								
			ve Cl/	CD and release management processes	s and	procedures.			
1			naintain the GHE DevOps implementations.						
1	<ul><li>Provide leadership projects.</li><li>Coordinate data m</li></ul>			, continuity, and escalation path to resolve issue and ensure forward momentum of					
1									
				enance and data quality efforts.					
1				es for process improvement in the current applications and take the necessary					
•				•		•			

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	<ul> <li>steps to have them evaluated and/or implemented.</li> <li>Develop impact assessments of proposed executive and legislative changes.</li> <li>Provide technical expertise to projects in the CDCR and advise CDCR management in the planning, development, and implementation of complex IT solutions.</li> </ul>					
30%	APPLICATION ARCHITECTURE & INFORMATION SECURITY The IT Specialist II is expected to maintain a high level of knowledge and skills in identifying and recommending technology solutions to improve processes or enhancing technology. These responsibilities include but are not limited to:					
	<ul> <li>As the expert in Progressive Web App (PWA) applications ensure security and industry best practices are reviewed and implemented where appropriate.</li> <li>Work with strategic vendors and partners to review and influence product roadmaps, strategies, run</li> </ul>					
	<ul> <li>proof of concepts, and identify gaps and solutions.</li> <li>Evaluate, test and recommend new technology solutions and services for inclusion into the CDCR service catalog.</li> </ul>					
	<ul> <li>Making informed choices regarding technology selection, system design patterns, and architectural best practices.</li> </ul>					
	Research, analyze, recommend and select technical approaches to address challenging development and integration problems with solution environments.					
	<ul> <li>Perform research activities to identify emerging technologies and trends that may affect the enterprise.</li> <li>Maintain awareness of vendor/product industry developments, regulations and trends and identify potential impacts to the enterprise.</li> </ul>					
	<ul> <li>Serve as the lead for the guidance of technical staff and coordination of scheduling and completion of work.</li> </ul>					
	<ul> <li>Participate in Change Control Board (CCB) meetings and Release Control Meetings.</li> <li>Actively participate in the development and review of Request for Proposals (RFP), Feasibility Study Reports (FSRs), Post-Implementation Evaluations &amp; Reviews (PIERs).</li> </ul>					
	<ul> <li>Ensure that data classification and categorization follow ISO policies and procedures.</li> <li>Develop and maintain business continuity through design and architecting high availability and disaster recovery with the appropriate technology recovery plan. As the technical expert provide best practices to build secure and high-performance Middle Tier</li> </ul>					
	interfaces that can be easily maintained.					
30%	<ul> <li>PLATFORM AND APPLICATIONS TECHNICAL SUPPORT</li> <li>Provide technical support for current platform/applications and serve as coordinator for development of new applications including infrastructure components.</li> </ul>					
	<ul> <li>Analyze, troubleshoot, and resolve the most complex platform infrastructure and security issues.</li> <li>Train and mentor staff to troubleshoot.</li> </ul>					
	<ul> <li>Monitor GHE CI/CD implementations to ensure adequate levels of performance and security are maintained and support development staff with any issues related to CI/CD processes.</li> </ul>					
	<ul> <li>Conduct root cause analysis to implement or recommend implementation of solutions</li> </ul>					
	<ul> <li>Implement change requests and resolve related problems of the most complex nature.</li> <li>Develop documentation and submit Change Requests for platform and applications as required.</li> <li>Demonstrate strong analytical and problem-solving skills.</li> </ul>					
	<ul> <li>Participate in formal and informal training programs to strengthen analytical skills and enhance knowledge of software tools and packages, which would prove beneficial to end-users.</li> </ul>					
	<ul> <li>Participate in Budget Change Proposals (BCP) for Data Security, Application Vulnerability/ Patch Management and Disaster Recovery (DR) and Business Continuity.</li> </ul>					
10%	MENTORING AND TRAINING					
	IT Specialist II is expected to possess advanced level knowledge and skills in solutioning and technologies. It is the responsibility of the IT Specialist II to train and mentor junior level CDCR staff to elevate the overall functional level of proficiency within the team. These duties include:					

• Provide technical and professional leadership and coach more junior level CDCR staff.

mentoring. Develop training material a Assist in the Review, prepar Participate in development o Participate in project or uni manager. Participate in mobile applicat This duty statement attempts to id	e, promoting an open and proactive approach to colland test environments for CDCR staff. The and maintain the Technology Recovery Plan (TRP) of division-wide methodologies and standards. It staff meetings, including assuming backup respon tion user training activities. entify the most significant responsibilities but ackno hat make up the balance and totality of the job.	nsibilities to the unit				
SPECIAL PERSONAL CHARACTERISTICS						
<ul> <li>Influence, change, and strengthen the community. Set an example each day through positive and pro-social role modeling, utilizing dynamic security concepts through observation and building rapport.</li> <li>Willingness to play a significant role in the collaborative efforts toward rehabilitation and public safety enhancement.</li> <li>Ability to facilitate conversations as a coach and mentor, engaging in a respectful and understanding manner.</li> <li>Ability to build trust, improve communication, and assist with the transformation of correctional culture.</li> </ul> SPECIAL REQUIREMENTS <ul> <li>CDCR does not recognize hostages for bargaining purposes. CDCR has a "NO HOSTAGE" policy and all prison inmates, visitors, nonemployees and employees shall be made aware of this. CONSEQUENCE OF ERROR <ul> <li>The consequence of error at the Specialist II level may have statewide and enterprise-wide impacts. Consequences include lost funding, project failure, failed business strategy, poor customer service and performance, risk exposure, loss of business continuity, missed business opportunities, and budget implications. Consequences also include error in making decisions or giving advice that would have a serious detrimental effect on the operating efficiency of the undertaking or function.</li></ul></li></ul>						
	signed by the supervisor and employee:					
EMPLOYEE'S STATEMENT:						
I HAVE DISCUSSED THE DUTIES AND RESPONSIBILITIES OF EMPLOYEE'S NAME (Print)	F THE POSITION WITH MY SUPERVISOR AND RECEIVED A COPY OF EMPLOYEE'S SIGNATURE	THIS DUTY STATEMENT. DATE				
SUPERVISOR'S STATEMENT:						
• I CERTIFY THIS DUTY STATEMENT REFLECTS CURRENT AND AN ACCURATE DESCRIPTION OF THE ESSENTIAL FUNCTIONS OF THIS POSITION						
• I HAVE DISCUSSED THE DUTIES AND RESPONSIBILITIES OF THE POSITION WITH THE EMPLOYEE AND PROVIDED THE EMPLOYEE A COPY OF THIS DUTY STATEMENT.						
SUPERVISOR'S NAME (Print)	SUPERVISOR'S SIGNATURE	DATE				