

Position Description

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JOB ID:	7084
Position Number:	02009217
UC Path Position #	40210129
Dept:	ENT APPS & INFRASTRUCTURE SVCS - 061419
Position:	IDENTITY AND ACCESS SERVICES ARCHITECT
Approved Payroll Title Code:	0532
Approved Payroll Title:	IT ARCHITECT 5
Approved MSP Salary Grade:	
Approved PSS Salary Grade:	MSP27
POSITION DETAILS	
Job Summary:	<p>Under the direction of the Manager of Identity & Access Management, this position works with a high degree of decision-making autonomy in the area of Identity and Access Management Services. Serves as architect and senior-level developer for complex and mission-critical systems. Assumes role of organization-wide expert. Leads projects and develop solutions of critical importance. Manages Identity and Access Management services product roadmaps to ensure alignment with business strategy; collecting and prioritizing requirements, and ensuring the services meet appropriate security and regulatory compliance. Analyzes existing systems and program modules, reviews existing documentation, and facilitates interview meetings with clients and subject matter experts to define business requirements. Troubleshoots operational problems and apply effective solutions. Leverages expert knowledge of a range of systems, platforms, software architectures, and network and software protocols to inform the strategic vision for Identity and Access Management applications.</p>
Campus Job Scope:	<p>The mission of Information and Educational Technology (IET) is to create and support an information technology environment that enhances the ability of the UC Davis community to teach, do research and provide public service. In support of the University's mission, IET will deliver an infrastructure of technological services appropriate to the requirements of the campus community.</p>
Department Specific Job Scope:	<p>Enterprise Infrastructure Services creates, deploys, and manages business, academic, and infrastructure systems. Identity and Access Management makes use of a broad framework to create a common 'identity database' holding secure summary information about faculty, students, staff, and in a future phase, patients. The information stored is used to support login and authentication to UC Davis computer systems and networks.</p> <p>This position serves as the architect and senior-level developer for complex mission critical systems and applications used by the entire population of student, faculty, staff, and university affiliates. This position has impact beyond the campus, functioning as an interface point with federated applications and inter-campus infrastructure solutions.</p>
Positions Supervised:	N/A
Essential Responsibilities:	<p>75% LEAD SYSTEM ARCHITECT/DESIGNER Assume a lead role in the development of architecture for complex systems and perform the design work of assigned systems.</p> <p>Create architectural solutions for existing or new systems.</p>

Create technical designs and specifications, based upon the business or system requirements.

Develop architectural standards for IET and coordinate the adoption of standards with the IET Architecture Review Board.

Develop and manage continuous integration and delivery processes and practices.

Write code and perform unit and system testing of completed code if needed.

Perform programming skills in major languages, such as J2EE/Java, JavaScript, C, Python, Node.js.

Coordinate with the project manager on all aspects of projects, and specifically user testing and roll out of completed software.

Monitor operational systems for proper performance and take measures to prevent potential problems from happening.

Troubleshoot operational problems and apply effective solutions.

Provide qualitative and quantitative information to management staff regarding system outages and performance problems.

Analyze existing systems and program modules, reviews existing documentation, and facilitates interview meetings with clients and subject matter experts to define business requirements.

Write business requirement documents and confirm them with clients.

Facilitate quality reviews of business requirement documents with other team members.

Respond to application support request tickets, and/or assign tasks to developers where appropriate; handle all escalated tickets.

Maintain current knowledge in latest technologies, industry and higher education trends within Identity and Access Management area.

Learn new and emerging technologies by attending conferences, classes, exhibits, participating in professional groups, and studying professional literature, and other sources of learning and self-study.

Participate in team research of application development tools, techniques, methodologies, technologies, and architectures.

Evaluate vendor software for potential application to meeting campus needs by interacting with vendors and analyzing vendor software specifications and documentation.

25% PLANNING, SUPPORT AND LEADERSHIP

Working with Enterprise Services Management, ensure Identity and Access Services continue to remain aligned with overarching goals and objectives within EIS and IET.

Leverage expert knowledge of a range of systems, platforms, software architectures, and network and software protocols to inform the strategic vision for Identity and Access Management applications.

Manage Identity and Access Management services product roadmaps to ensure alignment with business strategy; collecting and prioritizing requirements, and ensuring the services meet appropriate security and regulatory compliance.

	<p>Coordinate all development activities of the Identity and Access Management team to ensure adherence to standard IET and industry best practices while striving to maximize customer satisfaction and team performance.</p> <p>Provide leadership, mentoring and oversight for applications developers on a diverse set of projects including mission critical enterprise applications essential to the success of the campus.</p> <p>Provide technical support and leadership to Identity and Access Management infrastructure and developed applications.</p> <p>Resolve technical issues escalated by campus and cross-campus clients.</p>
Physical Demands:	<p>Sit for extended periods of time working at a computer terminal using a keyboard and mouse.</p> <p>Due to the mission-critical services provided by this department, this position may work hours other than M-F 8-5, especially in response to system problems.</p> <p>May be routinely on-call as required to ensure systems functionality.</p> <p>Work in a busy office environment with frequent interruptions.</p> <p>Vacation limited during peak business periods.</p>
Work Environment:	<p>Adhere to workplace safety practices, read information communicated about workplace safety, complete required safety training on time, and report any workplace safety issues promptly to their supervisor or the designated safety coordinator</p> <p>Adherence to published safety policies and practices.</p> <p>This position is a critical position and subject to a background check. Employment is contingent upon successful completion of background investigation including criminal history and identity check.</p> <p>UC Davis is a smoke and tobacco free campus. Smoking, the use of smokeless tobacco products, and the use of unregulated nicotine products (e-cigarettes) will be strictly prohibited on any UC Davis owned or leased property, indoors and outdoors, including parking lots and residential space.</p>
Background Check:	Yes
QUALIFICATIONS	<p>Experience with architecture and design of complex software solutions, applications and diverse systems, consistent with business requirements; and write technical specifications.</p> <p>In-depth working Identity and Access Management (IAM) experience.</p> <p>Experience with overall user access management.</p> <p>Extensive experience with account management, account provisioning and de-provisioning, roles management, and password management.</p> <p>Experience using programming skills in a major programming languages, such as J2EE/Java, JavaScript, C, Python, Node.js</p> <p>Experience with LDAP and Active Directory.</p> <p>Experience implementing single sign-on solutions for web based applications, utilizing username/password, tokens, SAML, and two-factor authentication.</p>
Minimum Qualifications:	

Thorough understanding of authentication and authorization mechanisms, Identity Federation, and MFA.

Experience in relational technology and developing and using Structured Query Language (SQL) to perform queries on database platforms such as MySQL, Oracle or Microsoft SQL Server.

Experience managing applications that contain data subject to governmental regulations, such as FERPA.

Experience in developing standards-based inter-application communication using SOAP or other web services technologies.

Bachelor's degree in Computer Science or related field or equivalent experience.

Experience converting business requirements into technical specifications for large, multi-functional, web-based software applications that must integrate within a complex, service architecture.

Skilled in use of software packaging and release management processes; including utilizing issue tracking, release tracking, continuous integration and build artifact repository systems (e.g. Jira, Bamboo, Maven)

Experience using organization and analytical skills to assume general assignments, simultaneously work on multiple projects, work with competing priorities and deadlines and independently follow projects through to completion.

Experience with long-term planning in a technical environment.

Experience developing and supporting Identity & Access Governance including Role based access control, access request and certification.

Experience migrating legacy Identity and Access Management applications to new solutions.

Experience defining complex business requirements for software applications and systems and to write effective business requirement specifications;

Experience with the use of vendor Identity and Access Management software (Oracle Identity Manager, SailPoint, Okta, etc.)

Experience with the use of vendor driver software, ODBC, and JDBC to connect to databases.

Experience using full-term software development life-cycle, including the use of a revision control system such as Github, Bitbucket, or Microsoft Visual Studio and bug reporting systems such as Jira.

Interpersonal and written communication skills to communicate with all hierarchical and technical levels at the University and to prepare and present written and oral reports.

Experience mentoring junior programmers and/or students in the technical field.

Experience communicating and/or describing technical specifications and requirements to technical and non-technical audiences.

Experience with RedHat Linux and Windows server operating systems.

Skilled in building loosely-coupled, service-oriented distributed systems.

Preferred Qualifications for Selection:

Expectations

Job Expectations

Read and follow the UCD Principles of Community.

Ability to effectively work in a team environment to solve technical problems.
Skilled at written documentation for reports and work flow processing.

Communicate effectively with co-workers, effectively use computer equipment, and conduct productive meetings.

Initiative to learn new technologies.

Highly motivated and result orientated.

Maintain flexibility in a continuously changing and fast paced work environment.

Make well planned decisions.

Work with a diverse group of people in such a manner as to build high morale and group commitments to goals and objectives.

Model the key values of the organization, including: Demonstration of integrity in the conduct of daily work.

Accountability for the safe-keeping of resources in the employee's care and custody; reliability/teamwork; attention to maintaining and expanding expertise in the functions of the position.

Model commitment to customer service in interactions with clients, co-workers and others.

Communicate and interact with clients, co-workers, and others in the workplace in a respectful, tactful, and effective manner.

Experience adhering to established guidelines and standards and to develop new guidelines as necessary.

Proactively participate in the research and evaluation of emerging application development tools and technologies.

Stay current with knowledge and/or skills on new technologies in telecommunications, safety, networking, facilities and project management, estimating and scheduling, regulatory requirements, and the field of application development.

Participate at conferences, classes and exhibits, in addition to professional groups and associations. Subscribe and read professional literature to stay abreast of changes and advances in application development software and methodologies.

Independently follow projects through to successful completion with a high degree of quality.