### Position Description

<table>
<thead>
<tr>
<th>JOB ID:</th>
<th>6161</th>
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<tbody>
<tr>
<td>Position Number:</td>
<td>02008149</td>
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<tr>
<td>UC Path Position #:</td>
<td>40220129</td>
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<tr>
<td>Dept:</td>
<td>ENT APPS &amp; INFRASTRUCTURE SVCS - 061419</td>
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<tr>
<td>Position:</td>
<td>Release Engineer</td>
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<tr>
<td>Approved Payroll Title Code:</td>
<td>0653</td>
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<tr>
<td>Approved Payroll Title:</td>
<td>APPLICATIONS PROGR 5</td>
</tr>
<tr>
<td>Approved MSP Salary Grade:</td>
<td>MSP26</td>
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<tr>
<td>Approved PSS Salary Grade:</td>
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#### POSITION DETAILS

Under the direction of the Enterprise Applications Supervisor in the Enterprise Infrastructure Services (EIS) department, this position serves as the sole Release Engineer for the Enterprise Applications team.

This position works with a high degree of autonomy alongside a team of software engineers on the Enterprise Applications team to support and improve software development tooling and production infrastructure to enable continuous delivery, automated build and test systems, and monitoring and alert systems in pursuit of a cloud native environment.

This position will work to help transition our on-premise, proprietary software development technology stack to a cloud native environment, design and support the tools needed by our software engineers to migrate to cloud infrastructure, reduce time-to-deploy, and enable automated testing in support of establishing a software development operation capable of continuous delivery.

This position works directly to support the software engineers on the Enterprise Applications team in fulfilling IET leadership's strategic vision of a cloud native infrastructure.

#### Campus Job Scope:

#### Department Specific Job Scope:

#### Positions Supervised:

NA

#### Essential Responsibilities:

70% SOFTWARE INFRASTRUCTURE DESIGN/DEVELOPMENT

Design, implement, and maintain infrastructure to support continuous integration and delivery of proprietary software packages with campus-wide impact using CI/CD pipelines.
Design, develop, implement, and maintain infrastructure and tooling which automates critical software development functions including building, testing, and deploying proprietary software packages to improve resiliency of campus-wide and multi-campus systems in pursuit of continuous operations and cloud native services.

Establish monitoring and response systems for both legacy, monolithic software systems and modern, highly distributed software systems to detect load imbalances, abnormal usage patterns, track critical performance metrics, and respond to degradations before they effect the customer experience.

Participate in and lead planning efforts for new, highly complex functionality/systems with little or no precedent.

Analyze and document requirements and provide estimates of programming effort and durations on all assigned projects.

Write functional and detailed technical specifications for application code and infrastructure developed.

Participate in technical reviews of designs for code modifications or custom extensions to core applications.

**20% SYSTEM ANALYSIS, SUPPORT, AND LEADERSHIP**
Act as subject matter expert and provide technical leadership, advocacy, support, and ad-hoc consultations to Enterprise Applications infrastructure, supported applications, and team members with a special focus on developer operations and cloud infrastructure.

Direct selection of tools, methods, and techniques to ensure system configuration and deployment procedures follow best practices.

Resolve technical issues escalated by the campus clients.

**10% PROFESSIONAL CURRENCY AND SOFTWARE & TECHNOLOGY EVALUATION**
Research and evaluate emerging application infrastructure tools and technologies, and make purchasing recommendations.

Attend conferences, classes, and exhibits; involvement in professional groups and associations; subscriptions to and readership of professional literature, and other sources of learning will all be referenced in evaluating initiative in this area.

Participate in periodic meetings within the IET-EIS organization to discuss relevant issues pertaining to application development, software infrastructure, and cloud operations.

Other duties as assigned.

<table>
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<tr>
<th>Physical Demands:</th>
<th>Sit at computer with extensive keyboard use and view screens for extended periods of time.</th>
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<tbody>
<tr>
<td>Work Environment:</td>
<td>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.</td>
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<td>Work in a busy office environment with frequent interruptions.</td>
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<td>Vacation is restricted during peak work periods.</td>
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<td></td>
<td>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.</td>
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</table>
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.

**Background Check:**
Yes

**QUALIFICATIONS**

**Minimum Qualifications:**
- Experience designing and configuring continuous delivery systems such as Jenkins, Bitbucket Pipelines, or CircleCI.
- Experience developing complex applications using Amazon Web Services such as CloudWatch, Elastic Container Service, AWS Lambda, and API Gateway.
- Experience writing application software or test suites in an object-oriented language such as JavaScript, Python, or Java.
- Experience with web technologies including JSON and REST, distributed computing concepts, and networking concepts.
- Experience converting business requirements into technical specifications for large, multi-functional, web-based software applications that must integrate within a complex service architecture.

**Preferred Qualifications for Selection:**
- Experience with infrastructure-as-code tools such as CloudFormation, Terraform, Serverless, Ansible, Chef, or Puppet.
- Experience with Docker, Kubernetes, or other container technologies.
- Experience defining and implementing security requirements for complex mission-critical systems using technologies such as SSL, key management systems, and identity and access management.
- Experience with the design and maintenance of data and data structures using both traditional SQL technologies and no-SQL technologies such as MongoDB, DocumentDB, or Firebase.
- Skilled in use of software packaging and release management processes, including utilizing issue tracking, release tracking, and build artifact repository systems (e.g. Jira, Bamboo, Maven, npm).
- Skilled in building loosely-coupled, service-oriented distributed systems.
- Experience working with a standardized Software Development Lifecycle (SDLC) and its corresponding tools for diagraming, version control, documentation, and code migration.
- 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.

*Bachelors Degree in Computer Science or related field or equivalent experience.*

**Expectations**

**Job Expectations**
- Read and model the UC Davis Principles of Community
- Communication skills to understandably and effectively describe technical requirements to technical and non-technical audiences.
- Provide higher level technical assistance to the technical workforce in the resolution of abnormal operating conditions.
- Maintain flexibility in a continuously changing and fast paced work environment.
- Ability to work independently under general direction from management, to manage workload across multiple simultaneous projects, to maintain a high level of productivity, and to meet deadlines under time constraints and continuously shifting priorities.
- Maintain up-to-date knowledge through literature, classes, exhibits, seminars, on-the-job training and other relevant training forums.
- Attendance at conferences, classes, and exhibits, involvement in professional groups and associations, subscriptions to and readership of professional literature, and other sources of learning will all be referenced in evaluating the incumbent's initiative in this area.
- Accountability for the safekeeping of resources in the employee's care and custody and for following and implementing the cyber-safety guidelines.
- Work cooperatively and collaboratively with others in support of the mission of UCD.
- Meet client and management expectations by being consistently punctual, reliable, and flexible.
- Meet or exceed key point indicators as defined in the yearly goals of the employee performance appraisal.