

Position Description

Position Description	
JOB ID:	9662
Position Number:	02014226
UC Path Position #	40227177
Dept:	ENTERPRISE STUDENT APPLICATIONS - 061418
Position:	Applications Programmer
Approved Payroll Title Code:	7300
Approved Payroll Title:	APPLICATIONS PROGR 3
Approved MSP Salary Grade:	
Approved PSS Salary Grade:	PSS22
POSITION DETAILS	
Job Summary:	Under general direction of the Student Information Systems (SIS) Supervisor, this position is responsible for designing, planning, and developing web applications that support the administration of student information and cross-campus enrollment. This role provides technical guidance and applies an understanding of information technology practices, community standards and relevant policies and procedures to medium-sized projects or portions of large projects with moderate scope and complexity. Works with campus stakeholders to resolve a wide range of issues, and demonstrate competency in selecting tools, methods and techniques to obtain results.
Campus Job Scope:	
Department Specific Job Scope:	The Enterprise Student Applications department provides technology leadership, planning, management, development, and implementation for student services and student information systems. This position serves as the technical co-lead for Cross Campus Enrollment System, which allows students from other UC campuses to take classes at UC Davis.
Positions Supervised:	NA
Essential Responsibilities:	<p>45% DEVELOPMENT & TECHNICAL SUPPORT Work with development team members or independently to design, develop, and maintain complex software projects using Java, C, HTML/CSS, Groovy on Grails, PL/SQL and Oracle.</p> <p>Develop, enhance and maintain complex business rules using web-based forms, processes, database objects, procedures and reports using appropriate 3GL, 4GL, UNIX shell and procedural language constructs in support of campus-wide information systems.</p> <p>Discern the appropriate implementation of integrity constraints, code reusability, maintainability and best practice standards.</p>

Unit test new code to ensure conformance with specifications.

Perform code reviews and provide constructive feedback on peer application code.

Write documentation including technical specifications, code comments, and technical analyses.

Apply moderately complex programming security practices.

Negotiate, develop and execute moderately complex project plans/test plans.

Train users in conversion and implementation of systems.

Monitor and employ source code control techniques and configuration management through the use of Serena and Bitbucket.

Work in the Student Information System relational database environment with hundreds of objects, relationships, and complex constraints.

Provide third level technical support to other clients, departmental programmers and peers as required.

40% ANALYSIS AND DESIGN

Provide analysis and design support for core Student Information Systems (SIS) administrative offices.

Analyze and document business/functional requirements for new application development or for the enhancement of existing applications.

Analyze applicability and fit-gap of 3rd-party product upgrades and maintenance releases against business requirements. Analyze business functions, applications and data for problem identification and resolution.

Design solutions implemented within a well-structured application development methodology with iterative quality control, peer reviews and prototyping.

Work in a relational database environment with hundreds of objects, relationships, and complex constraints.

Work with other analyst programmers, project management, configuration management, quality control analysts, database administrators and technical and non-technical administrative staff in the development and review of application designs.

Respond to clients in addressing technical issues, maintenance and software modifications in a high availability software environment.

15% TECHNOLOGY RESEARCH & PROFESSIONAL DEVELOPMENT

In collaboration with campus resources and technical staff, research tools, application techniques, technical architectures, and services appropriate to the environment of the department. Develop recommendations based on findings and report them to clients and management groups.

Acquire and maintain broad University functional knowledge and in-depth specific administrative operational knowledge of one or more operational units.

Maintain vendor product knowledge by reviewing release notes, product manuals, participating in product discussions (Commons) and taking advantage of training opportunities.

	<p>Maintain technical currency by reviewing trade communications and enrolling in training, conferences, etc.</p> <p>Perform other duties as assigned by management to fulfill business needs.</p>
Physical Demands:	
Work Environment:	<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> <p>Work flexible hours, including occasional evenings and weekends. Occasional off-campus travel with possible overnight stays. Limited vacation usage during peak workload periods.</p>
Background Check:	Yes
QUALIFICATIONS	
Minimum Qualifications:	<p>B.S. degree in Computer Science or related field, or equivalent combination of education and experience.</p> <p>Programming experience using SQL, PL/SQL, Shell Scripting and Object Oriented Programming technologies.</p> <p>Experience with software design, modification, implementation and deployment, including object-oriented programming concepts.</p> <p>Knowledge of secure software development.</p> <p>Experience with identification and use of code libraries and open-source forums.</p> <p>Software repository, testing and test planning skills.</p> <p>Experience communicating technical information to technical and non-technical audiences at various levels in the organization.</p>
Preferred Qualifications for Selection:	<p>Experience developing web applications using advanced web programming languages interfacing with large scale RDB systems.</p> <p>Experience programming in the Ellucian Banner Student Information System.</p> <p>Knowledge of middleware systems including LDAP, CAS security, and user authorization systems.</p> <p>Experience with "C" and Java languages.</p>

Expectations

Job Expectations	<p>Read and follow the UC Davis Principles of Community.</p> <p>Adhere to the ethical standards put forth in the University of California Statement of Ethical Values.</p> <p>Maintain confidentiality of student records.</p> <p>Exercise flexibility; continually adjust to a dynamic environment.</p>
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Work as a member of a team and exercise consideration and civility with colleagues.

Communicate and interact in a professional, pleasant and effective manner with individuals from diverse backgrounds.

Convey a helpful and positive attitude to the public, campus departments and the various units in support of the department's client service environment.

Follow safety and security procedures in performing work.

Maintain up to date knowledge of campus programs and information.

Be on time and prepared for meetings.

Acknowledge client and peer communications within two business days, excepting absences.