Position Description

**Requisition #** 03020730

**Position Number:** 02009154

**Dept:** ENTERPRISE STUDENT APPLICATIONS - 061418

**Position:** SR. ADMINISTRATIVE/ACADEMIC APPLICATION SYSTEMS DEVELOPER

**Approved Payroll Title Code:** 0652

**Approved Payroll Title:** APPLICATIONS PROGR 4

**Approved MSP Salary Grade:** MSP24

**POSITION DETAILS**

**Job Summary:** Under general direction of the Assistant Dean of Information Technology, develop highly complex systems using heterogeneous technologies that need to interoperate with many internal and campus system such as PPS, Banner, MyInfoVault, DaFIS/Kuali Financial System and Campus Data warehouses. These applications have a campus-wide impact. Examples: Degree Certification, Campus Important Dates. Conduct QA/QC for new or revised current systems ensuring that the systems meet the business requirements of the stakeholders as well as ensuring Cyber-Safety compliance of said systems. Develop applications that are used college- and campus-wide.

**Campus Job Scope:**

The Administrative/Academic Application Systems Developer is a senior level member of the College of Letters & Science Computing Services, a unit within the Office of the Deans. The unit provides direct computing support to the Office of the Dean and its 52 academic departments/programs. In addition, this position will develop applications that may be used campus-wide.

**Department Specific Job Scope:**

**Positions Supervised:** NA

**Essential Responsibilities:**

90% APPLICATION DEVELOPMENT AND PROGRAMMING
- Provide leadership in analyzing and defining stakeholders, business requirements; review technical and functional proposals to ensure
outcomes meet the stakeholders’ requirements. Responsible for major administrative systems currently in use or soon to be modified to reflect the current technological methodologies and techniques, and to ensure interoperability of these systems. Such systems include, but are not limited to the Online Degree Certification, Student Information Center and Academic Personnel systems.

- Design, develop and implement the most efficient way to extract data in real time using SQL Server as backend the various campus DBMS systems (MS SQL Server and Oracle) and .Net with C#. Occasional programming in other languages may be required to interface multiple applications.

- Provide assistance in the testing and debugging of systems developed and/or supported by the unit. Working with other members in the unit, examine existing/new database schemas to ensure data consistencies and referential integrity.

- Independently, or with other members of the unit, develop Application Program Interfaces (API).

- Review deliverables by other members of the unit to ensure Stakeholders business requirements are met as well as performing QA/QC to assure Cyber-Safety policies are adhered to. Responsible for keeping up with the latest cyber-threats pertaining to programming/database vulnerabilities using the "Open Web Application Security Project" top-10 document criteria. Primary tester of all web-applications, using AppScan to detect application level vulnerabilities.

- Provide leadership, working with other members in the unit, in devising strategies to mitigate vulnerabilities before system deployment.

10% PROFESSIONAL DEVELOPMENT

- Participate in seminars and user groups to maintain and broaden knowledge of information technologies.

- Keep abreast of new and emerging programming and analytical technologies needed to advance information technology systems within the unit.

Physical Demands:

This position typically works M-F, 8-5, but occasional flexible work hours are needed to meet business needs.

Work Environment:

Work in an extremely hectic environment.

UC Davis is a smoke and tobacco free campus effective January 1, 2014. 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

Bachelor's degree in computer science, informatics or equivalent work experience.

Knowledge of the Family Educational Right to Privacy Act (FERPA) and Health Insurance Portability and Accountability Act (HIPPA).

Experience designing and implementing complex database systems.

Extensive knowledge in database design using MS/SQL, Oracle and MySQL

Extensive in-depth experience with an object oriented programming language including Java, .Net, C#, C.

Experience developing enterprise level projects.

Analytical skills to evaluate current business processes and to develop automated solutions to enhance the data management functions of current processes.

Experience in ALL of the following: XML, DHTML, JavaScript, CSS, HTML and basic HTTP protocols.

Knowledge of SSL certificates and common web application security practices (including attack vectors like SQL injection, Cross-Site Scripting and other OWASP Top Ten Critical Web Application Security Vulnerabilities)

Experience in SQL, T-SQL, SQL*PLUS, PL/SQL, triggers and stored procedures for MS SQL Server, Oracle and MySQL.

Experience and proficiency in data interchange between MS SQL/Server, Oracle and MySQL.

Experience in database design and tuning techniques.

Experience in the development of data warehouses.

Writing skills to develop technical and operational manuals.
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<th>Preferred Qualifications for Selection:</th>
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<tr>
<td>Experience in XSL and XSLT.</td>
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<td>Knowledge of campus- and system-wide administrative systems to reconcile these systems to those used within the Office of the Dean, academic departments and units within the College desirable.</td>
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<td>Experience with jQuery or another JavaScript library.</td>
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<td>Experience working with university policies and procedures.</td>
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<td>Experience extracting data from the current campus systems such as PPS, Banner, Mothra and campus data warehouses.</td>
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<td>Interpersonal and oral communication skills.</td>
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<td>Skills to express thoughts logically, both in writing and orally.</td>
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<th>Expectations</th>
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<td>Read and follow the UCD Principles of Community.</td>
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<td>Interact effectively with faculty and staff.</td>
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<th>Job Expectations</th>
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<tr>
<td>Work cooperatively and independently with technical and non-technical staff and faculty.</td>
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<td>Exercise sound judgment and appreciate the implications of various courses of action.</td>
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