

SENIOR SYSTEMS INTEGRATOR

DEFINITION

The Senior Systems Integrator reports to the Director, Enterprise Application Systems and maintains frequent contact with departments and personnel throughout the college, other IT management and staff, contract programmers and external information systems vendors.

CLASS CHARACTERISTICS

The Senior Systems Integrator works with a high degree of independence to design and implement highly complex integrated applications. Projects typically involve several customers and applications that require the integration of multiple systems, platforms, and technologies and may serve as the project leader for assigned projects. This position is responsible for understanding how diverse technology solutions can be linked together to improve business processes throughout the college. The Senior Systems Integrator will develop and implement connections between resources in a secure, reliable and efficient manner, whether these resources are hosted locally or remotely. This position is also responsible for providing expert guidance to the college and other information technology staff on emerging technology solutions such as web services, federated identity, application programming interfaces and mobile computing.

EXAMPLES OF ESSENTIAL FUNCTIONS (Illustrative Only)

1. Develop and manage integrations between the college's Enterprise System (Banner), portal and both local and cloud-based third-party applications and systems via web services and API's.
2. Participate in the full software development life cycle, including meetings, estimations, design, development, testing and support.
3. Develop software enhancements and integration improvements that complies with coding and security standards; promote consistency, maintainability, quality, agility and reuse across the system life cycle.
4. Collaborate with clients and provide expert knowledge of the capabilities of the modules of the primary database and auxiliary systems; Clearly and effectively communicate these capabilities to owners of various business processes.
5. Develop and improve the delivery of services through the Internet. Enable delivered web functionality in the current application(s), develop new web applications, or develop integrations that leverage web services within existing applicatons.
6. Develop automated processes to maximize the availability of services and provide monitoring tools such as reports and dashboards to identify ways to improve quality and reliability.
7. Develop, manage and extend mobile applications (i.e., MountieAPP), ensure compatibility with new versions of mobile operating systems, and provide a migration path to the next generation of mobile applications.
8. Develop and maintain technical documentation of integrated processes to allow easy hand-offs to other team members. Train users or technical support staff on developed system integrations.
9. Promotes an environment of belonging as it relates to diversity, equity, inclusion, social justice, anti-racism, and accessibility.

10. Participates on committees, task forces, and special assignments, including, but not limited to, Screening and Selection Committees and mandated trainings as required.
11. Prepares and delivers oral presentations related to assigned areas as required.
12. Provides quality customer service when interacting with the public, vendors, students, and College staff, including individuals from minoritized groups.
13. Support and abide by federal, state, local policies and Board Policies and Administrative Procedures.
14. Learn and apply emerging technologies and standards, especially in the areas of federated identity, web services and mobile applications; recommend implementation and adoption where warranted.
15. Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

1. Principles and practices of supporting a diverse, equitable, inclusive, socially just, anti-racist, and accessible academic and work environment.
2. Practical experience with the following technologies in a production environment:
 - a. Service-oriented Architecture (SOA) and SOAP/ REST Web Services implementations, design patterns and practices.
 - b. Object-oriented programming languages and frameworks such as Groovy, Grails, Hibernate, Spring, JQuery, JSON, JavaScript, CSS, HTML.
 - c. Linux/Unix/AIX Operating Systems.
 - d. Rhodes Framework/RhoMobile Suite.
 - e. Authentication and identity services such as CAS and Shibboleth.
 - f. PL/SQL and Oracle SQL database design.
 - g. Oracle Application Express.
3. Experience implementing, configuring, customizing and integrating software solutions.
4. Information technology, networking and security standards.
5. System and environmental integration techniques.

Skills & Abilities to:

1. Participate in addressing gaps in diversity, equity, inclusion, social justice, anti-racism, and accessibility in the recruitment and retention of staff.
2. Advocate for and communicate the College's vision and commitment to creating a diverse, equitable, inclusive, socially just, anti-racist, and accessible academic and work environment.
3. Participate in providing resources and support towards the goal of a diverse, equitable, inclusive, socially just, anti-racist, and accessible academic and work environment.
4. Analyze customer requirements and propose effective and efficient technical solutions.
5. Plan, organize and prioritize work.
6. Meet schedules and time lines.
7. Understand and follow oral and written directions.
8. Establish and maintain effective working relationships with others.
9. Quickly learn and apply emerging technology.

10. Work closely with a wide range of people possessing a broad array of skills.
11. Fulfill a variety of functions in a team environment without direct supervision.
12. Communicate effectively both orally and in writing.
13. Establish and maintain cooperative and effective working relationships with others.

Education and Experience:

1. A.S. degree in computer science or related area; and
2. A minimum of four (4) years experience in a Linux/Unix environment and technical programming experience in a large production environment, which includes experience with mobile application development

Desirable Qualifications:

1. Experience with an Enterprise Student Information System (i.e., Banner, Datatel, PeopleSoft).
2. Experience integrating diverse systems in an Educational environment.
3. Experience working with policies and procedures relating to diversity, equity, inclusion, social justice, anti-racism, and accessibility preferably in a minority serving institution such as Hispanic Serving Institution (HSI) and Asian American and Native American Pacific Islander-Serving Institution (AANAPISI); OR
4. Experience with participation in programs relating to diversity, equity, inclusion, social justice, anti-racism, and accessibility preferably in a minority serving institution such as Hispanic Serving Institution (HSI) and Asian American and Native American Pacific Islander-Serving Institution (AANAPISI).

Licenses and Certifications:

The incumbent may periodically be required to travel to a variety of locations. If operating a vehicle, employees must have the ability to secure and maintain a valid California driver's license.

PHYSICAL DEMANDS

Must possess mobility to work in a standard office setting and use standard office equipment, including a computer; to operate a motor vehicle and to visit various District and meeting sites; vision to read printed materials and a computer screen; and hearing and speech to communicate in person, before groups, and over the telephone. This is primarily a sedentary office classification although standing and walking between work areas may be required. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, push, and pull drawers open and closed to retrieve and file information. Employees must possess the ability to lift, carry, push, and pull materials and objects up to 20 pounds.

ENVIRONMENTAL ELEMENTS

Employees work in an office environment with moderate noise levels, controlled temperature conditions, and no direct exposure to hazardous physical substances. Employees may interact with upset staff and/or the public in interpreting and enforcing

departmental policies and procedures. Reasonable Accommodation shall be provided as required.

Amended: 11/2022