



Amherst College

Office of Human Resources

JOB DESCRIPTION

Title: Integration Programmer Analyst

Department: Enterprise Applications Reports to title: Director of Enterprise Applications

Full Time: x Part Time: _____ Date Prepared: 7/18/2019

Job Group & Level: PT-4 Regular Daily Work Schedule: _____ to _____

Pay Type: Weekly _____ Monthly X Months Per Year: 12 Hours Per Week: 40

(Summer Months) Months Per Year: _____ Hours Per Week: _____

1. Summary of Position:

The Integration Programmer Analyst is responsible for the design, development, release and support of application and data integrations related to various services at Amherst College. These integrations include data extraction, transformation and loading (ETL), application interfaces, data warehouse/data mart population, ODS population, data synchronization, provisioning, migration, profiling and cleansing. The Integration Programmer Analyst may work on multiple projects as a developer or as a subject matter expert, participating in projects that require data and/or applications integrations. This position will also be responsible for operational support and maintenance of various integrations currently enabling College processes and systems.

This position reports to the Director of Enterprise Applications and works collaboratively in diverse project and service support teams that include programmer/analysts, web developers, and systems and network support staff. In addition, this position also coaches and mentors other technical staff.

Takes appropriate actions to support a diverse workforce and participates in the College's efforts to create a respectful, inclusive, and welcoming work environment.

2. Principal Duties and Responsibilities:

40% Analysis and Planning

- Develop and maintain an integration architecture blueprint for the organization
- Plan, execute, and manage the integration of new applications with existing systems and software
- Develop standards and processes to support and facilitate integration projects and initiatives

30% Programming

- Develop and maintain system integrations and components
- Document and diagram current and future state integration processes across business applications
- Develop application to application integrations, services, internal and external APIs, file transfers, and EDI and SQL queries
- Inventory and maintain an integration repository across segments in order to promote reusability
- Expand integration monitoring and alert capability

25% Support

- Provide oversight for integration enhancements and day-to-day support including rapidly troubleshooting and debugging system issues and recommending fixes
- Troubleshoot existing integrations and provide technical support to the Enterprise Applications team.
- Collaborate with a diverse staff and contribute to an inclusive work culture

5% Performs other duties/functions as requested.

All employees are expected to participate in the College's efforts to create a respectful, inclusive, and welcoming work environment.

3. Internal-External Interaction/Communication:

Frequent interaction and communication with faculty and academic department staff as well as the College administration, librarians, and IT staff. Regular communication with software and hardware vendors and external service contractors negotiating contracts, licenses, fees, etc.

4. Education: (include certifications and licenses)

Required:

- Bachelor's Degree in Computer Science, Engineering, or related field, or in lieu of a degree, 4 years of equivalent experience

Preferred:

- Certification in data management or data architecture.

5. Experience: (List specific skills necessary to perform this job)

Required:

- 3-5 years of development experience
- Familiarity with integration architecture and best practices
- Experience with API protocols and schemas such as SOAP and REST
- Experience programming APIs compliant to REST standards
- Competency with XML constructs and schemas
- Experience with object serialization via XML and JSON
- System integration experience using either SOA techniques and ASMX or WCF (or equivalent)
- Experience developing with SQL
- Knowledge of network protocols and standards
- Commitment to or experience working with a diverse community

Preferred:

- Working knowledge of object oriented design, patterns and practices
 - Project management experience
 - Experience developing applications and services using one or more of: C#, .NET, Java, Ruby, Python, Javascript
 - Experience with integration platforms such as Snaplogic, Talend, or Mulesoft
 - Experience developing database solutions on one or more SQL platforms (e.g. SQL Server, MySQL)
-

6. Environmental and Physical Demands: (Please describe the work environment and unusual physical demands, i.e. lifting requirements.)

- Repetitive hand motions - fingers, hands, and wrists
 - Ability to operate, activate, prepare, position, inspect and assess the proper functionality of computer, keyboard, mouse, and A/V systems
 - Traverse campus throughout the year regardless of weather
 - Occasional exposure to outdoor elements, and fluctuations in temperature and humidity
 - Frequent standing, sitting, stooping, kneeling, bending, crawling, reaching
 - Ascending and descending stairs
 - Ability to access small spaces
 - Ability to lift, carry, push and pull up to 25 lbs.
 - Visual – normal concentration
-

7. Decision Making:

Displays a high level of critical thinking and analysis in bring resolution to high-impact, complex and/or cross-department and division problems. Work requires prompt decisions when face with complex and often contradictory alternatives.

8. Supervision Exercised/Received:

Minimal supervision received by the supervisor.

Supervisory Responsibility: Yes _____ No X _____

Number of Employees Supervised: _____