

***Nothing in this job description restricts management's right to assign or reassign duties and responsibilities to this job at any time.***

**DUTIES** Serves as Service Oriented Architecture (SOA) Integration Solution Developer, in the Enterprise Business Innovation & Analytics (EBIA) Department of the Office of Technology (Office) Metropolitan Washington Airports Authority (Airports Authority). Participates in planning, implementing, and testing service oriented integration solutions using web services, extract / transform / load (ETL) processes, application program interfaces (APIs), integration platform as a service (iPaaS) and integration design patterns. Helps ensure integration service flow development between systems, services, data and databases in any combination of on premises and cloud-based platforms, promoting continuous improvement, and compliance in an iPaaS on a cloud infrastructure. Performs related functions.

--Designs and develops integration solutions using web services, iPaaS technologies, and tools including Informatica, ETL, APIs, messaging patterns, and other legacy integrations.

--Develops integration platform services and API services using Agile methodology, continuous integration, test driven development, and Agile productivity tools.

--Works to deploy integrated solutions using industry standards including extensible markup language (XML), java script object notation (JSON), secure file transfer protocol (SFTP), hypertext transfer protocol (HTTPS), simple object access protocol (SOAP) and representational state transfer (REST).

--Helps ensure that appropriate EA standards are developed and adopted in the delivery of SOA solutions by contractors and vendors, including the usage of tools, platforms, methodologies, controls, and test plans to ensure efficiency, quality, and consistency with the finished product(s). Performs quality assurance reviews on contractor/vendor submitted, as directed.

--Works with Supervisor in maintaining the repository for source code; helps ensure source code is reliably backed up and versioned to prevent disruption to project team(s). Assists in the development of guidelines and standards for in-house code development and helps ensure that any vendor supplied code conforms to the EBIA Department standards for maintenance and enhancements.

--Communicates and interacts effectively with internal and external business contacts including, but not limited to, other members of the unit/team, other Airports Authority employees (such as managers, supervisors, professionals, and support staff).

--Uses a computer and (a) modern office suite software (such as MS Office) to communicate (email), plan, schedule, word process, prepare presentations and graphics, manipulate data (spreadsheets and databases), and perform or conduct research (Internet use); (b) enterprise system/software to collect, store, manage and interpret data, time and attendance reporting, and other functions; and (c) specialty systems/software used in the Office for software development functions.

--Performs related duties as assigned.

***Critical features of this job are described under the headings below. They may be subject to change through reasonable accommodation or otherwise.***

### **MINIMUM QUALIFICATIONS (MQs)**

To be rated qualified for this job, an applicant must meet all of the MQs listed below at the time of vacancy announcement closure.

1. Bachelor's Degree in Computer Science, Engineering, Management Information Systems, or a field which provides a strong foundation for successfully performing the DUTIES in this job description, or an equivalent combination of education, experience and training that totals four years.
2. Three years of progressively responsible experience in Service Oriented Integration solution development in an Integration Platform such as a Service (iPaaS) on a cloud infrastructure and/or in a Service Oriented Architecture (SOA) platform.

Education and training beyond what is needed to satisfy MQ 1 above may be substituted for up to one of these three years of experience (MQ 2) on a week-to-week basis provided the education and training provide evidence of the knowledge, skills and abilities required.

### **PREFERRED QUALIFICATIONS**

The qualifications listed below (if any) are preferred and may be considered in the selection process, but they are not required to be rated qualified for this job.

1. A Master's Degree in Computer Science or Engineering.
2. Experience in legacy data integration using Informatica or other ETL technologies.
3. Experience with large SaaS application and big data integration.

### **KNOWLEDGE, SKILLS, ABILITIES AND OTHER FACTORS (KSAOs)**

The following KSAOs are required for successful performance of this job and are a basis for rating and ranking applicants who are found to meet the MQs. *Local, Federal, airport industry or Airports Authority specific bodies of knowledge listed below may be acquired on the job, typically; ability to rapidly acquire them is required at the time of vacancy announcement closure.*

1. Knowledge of and experience with: integration solution development in an Integration Platform as a Service (iPaaS) on a cloud infrastructure and / or in a Service Oriented Architecture platform.

2. Knowledge of and experience with: web services, web Application Program Interface (API) management, Integration Platform as a Service (iPaaS) technologies and tools including Informatica, Extract / Transform / Load (ETL), messaging patterns, and other legacy integrations.
3. Knowledge of and experience with: deploying systems using industry standards including Extensible Markup Language (XML), JavaScript Object Notation (JSON), Secure File Transfer Protocol (SFTP), Hypertext Transfer Protocol (HTTPS), Simple Object Access Protocol (SOAP) and Representational State Transfer (REST).
4. Knowledge of and experience with: application integration best practices, design patterns, and standards.
5. Knowledge of and experience with: big data concepts, open source scripting, networking, and security.
6. Knowledge of and experience with: Financial Management Systems, Procurement and Asset Management Systems.
7. Skill in problem solving to select, organizes, and logically process relevant information (verbal, numerical, or abstract) to solve a problem. This includes the ability to recognize subtle aspects of problems, identify relevant information, and make balanced recommendations and decisions. This includes ensuring integration service flow development between systems, services, data and databases in any combination of on premises and cloud-based platforms.
8. Interpersonal skills to interact with business contacts in a businesslike, customer service-oriented manner.
9. Skill in oral communication to understand verbal information (including instructions, descriptions, and ideas) and to express such information verbally so that others will understand. This includes the ability to encourage oral communication by others. This includes discussing the appropriate processes to integrate solutions.
10. Skill in written communication to understand written information (including instructions, descriptions, and ideas) and to express such information in writing so that others will understand. Examples include assisting in developing guidelines and standards for in-house code development.
11. Skill in using a computer and (a) modern office suite software (such as MS Office) to communicate (email), plan, schedule, word process, prepare presentations and graphics, manipulate data (spreadsheets and databases), and perform or conduct research (Internet use); (b) enterprise system/software to collect, store, manage and interpret data, time and attendance reporting, and other functions; and (c) specialty systems/software used in the Office for software development functions.

**RESPONSIBILITY** Is responsible for developing Airports Authority Service Oriented Integration Solutions between systems, services, data and databases in any combination of on premises and cloud-based platforms. Work supports the strategic goals of the Airports Authority in terms of advancing e-Business opportunities for Airports Authority end-users, business stakeholders, and vendors.

Reports to a Program Manager in the EBIA Department (Supervisor). Most work flows to the incumbent as a result of assigned functions and processes. Other work is typically in the form of special assignments. The Supervisor provides objectives and some guidance for recurring assignments and, in consultation with the incumbent, brief instructions and time frames for special projects. The incumbent collaborates with and keeps the Supervisor informed and typically elevates only highly complex or sensitive issues for assistance in resolution; initiative is expected. The incumbent works with a variety of internal and external parties to fully understand and appropriately consider development applications. Work is typically reviewed in terms of quantity, quality, timeliness, customer service, teamwork adherence to guidelines, and other factors, including specific performance management requirements.

Guidelines and references include but are not limited to, Office policies, procedures, and standards (e.g. Office of Technology Standards, Change Management Process, Root Cause Analysis Procedure, Technology Advisory Committee Project Submittal Procedure, Electronic Communications System Policy, and Enterprise Technology Management Policy, etc.); Information Technology Infrastructure Library (ITIL), PMO best practices, etc. The incumbent uses seasoned judgment to select and apply the most appropriate guideline in the development of service oriented integration solutions.

**EFFORT** The work is primarily sedentary and typically requires light physical effort as in opening/closing file drawers, lifting and carrying files/plans, etc. Incumbent may sit for extended periods while performing desk work; moves about to obtain or distribute work materials, meet with people, etc. Regularly uses a computer to develop reports, analyze proposals and perform other tasks; operates other office equipment. Frequently exchanges information by telephone. Regularly reviews information on computer screens, printouts, contracts, and regulations containing small print.

**WORKING CONDITIONS** Works primarily in an adequately lighted, ventilated, and temperature controlled office and conference rooms.

**OTHER SIGNIFICANT JOB ASPECTS** None.