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

DUTIES This is a term position at the Metropolitan Washington Airports Authority (Airports Authority). Serves as Lead Web Developer, e-Business Solutions in the Enterprise Business Innovation & Analytics (EBIA) Department of the Office of Technology (Office). Executes application (app) development projects across the domains of mobile technology, the web, and intranet. Partners with the Enterprise Architecture (EA) team to understand the goals, processes, and technology requirements for developing apps in a Service Oriented Architecture (SOA) platform on a cloud infrastructure and works closely with developers on the EBIA team and other Office staff to deliver cross domain solutions. Performs related functions.

--Provides expert-level technical support in the development of app solutions using a range of web technologies and database tools, such as Hypertext Transfer Protocol (HTTPS), HyperText Markup Language (HTML), Cascading Style Sheets (CSS), JavaScript (JS), Java/JavaScript, ASP.NET, Hypertext Preprocessor (PHP), JQuery, JavaScript Object Notation (JSON), JBOSS, Model-view-controller (MVC) Patterns, Extensible Markup Language (XML), web Application Program Interfacing (API), Structure Query Language (SQL) Server, Visual Studio 2008 (or higher), .Net Framework, C# and VB.Net, XML Schemas, SOA, Object-Oriented (OO) Principles, and Distributed System Architecture.

--Develops mobile app solutions for the Airports Authority using iPhone Operating System (iOS) for iPhone/iPod/iPad applications; Java for Android development; HTML5/AJAX/JS/ JQuery/REST for mobile web apps; and Unity/C# for iOS, Android, or mobile web apps.

--Designs and develops user interfaces for web and intranet apps by establishing detailed program specifications utilizing software development lifecycle (SDLC) methodologies and tools. Develops web and intranet apps within a Content Management System (CMS) using content management software, such as Drupal, Microsoft SharePoint, and Open Text. Integrates e-Business solutions using Java, Content Relationship Management (CRM) Application Programming Interface (API) (e.g. Salesforce, NetSuite, SalesLogix, Microsoft Dynamics), and/or .Net environments. May design and develop app solutions for CRM systems.

--Provides innovative strategies to facilitate requirements gathering during agile sprint sessions. Translates business requirements into executable sprint packages or technical design specifications. Coordinates technical requirements, designs, schedules and contractor/vendor activities to finalize the development of apps.

--Proactively identifies project risks and issues, such as troubleshooting development and production problems across multiple operating environments and platforms and facilitates resolution of project risks and issues with business stakeholders.

--Ensures that the appropriate EA standards are developed and adopted in the delivery of mobile technology, web, and intranet projects 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 artifacts and serves on peer review panels.

--Participates in the development of cross-platform integration including web/mobile, portals, document management systems, CRM systems, Service-oriented architecture (SOA) infrastructure, Enterprise Service Business (ESB) architecture, and cloud computing to achieve e-Business data integration services that engage the Airports Authority client community (Airports Authority end-users, business stakeholders, contractors/vendors, and the traveling public) in a broader communications network. Integrates apps by designing database architecture and server scripting. Analyzes and establishes app connectivity with network systems, search engines, and information servers. Achieves established Service Level Agreement (SLA) targets for supporting apps under assigned domains.

--Maintains the Airports Authority's official website, intranet site, and associated apps and systems. May also provide maintenance support for CRM systems.

--Maintains the repository for source code. Ensures that all source code is reliably backed up and versioned to prevent disruption to the project team(s) working to develop apps. Develops guidelines and standards for in-house code development and ensures 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), vendors/suppliers/tenants, and airport users.

--Uses a computer and (a) modern office suite software for various applications such as, but not limited to, planning/scheduling, communicating (email), word processing, data manipulation (databases and spreadsheets), charts/graphics and presentations; (b) enterprise systems/software (such as ERP) to collect, store, manage and interpret data from business activities; and (c) specialty systems/software used in the Office for app development and other 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. A 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. Eight years of <u>progressively responsible</u> experience in software development, and delivering projects in web and mobile technologies including development of (a) HTTPS, HTML, CSS, JS, Java/JavaScript and JSP, JQuery, JSON, MVC Patterns, XML, and web API; (b) apps within a CMS using at least two of the following software products Drupal, Microsoft SharePoint, or Open Text in Java and/or .Net environments; and (d) business processes and conformance with information technology (IT) project delivery methodologies such as SDLC and EA standards.

    A master's degree in any field providing strong foundation for successful performance of the DUTIES in this job description may be substituted for two of these eight years.

PREFERRED QUALIFICATIONS

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

1. A Master's Degree in Computer Science or Engineering.

2. Experience in developing apps using PHP, .NET framework, and web services.

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. Expert level knowledge of: iOS for iPhone/iPod/iPad apps development; Java for Android apps development; HTML5/AJAX/JavaScript/JQuery/REST for mobile web apps development; or Unity/C# for iOS, Android, or mobile web apps in the development of mobile solutions for the mobile technology market.

2. Expert level knowledge of developing web technologies, including HTTPS, HTML, CSS, JS, Java/JavaScript and JSP, JQuery, JSON, MVC Patterns, XML, and web API to integrate and develop solutions across different technology platforms.

3. Expert level knowledge of developing web and intranet apps within a CMS, using at least two of the following software products: Drupal, Microsoft SharePoint, or Open Text to achieve established SLA targets for supporting applications under assigned domains.

4. Knowledge of Java and/or .Net environments to lead the development and integration of app solutions across platforms to achieve e-Business data integration services that engage the

Airports Authority client community (Airports Authority end-users, business stakeholders, contractors/vendors, and the traveling public) in a broader communications network, allowing clients to collaborate, exchange data, and conduct business using multiple technologies, such as mobile, the web, and intranet in a secure and effective manner.

5. Knowledge of business processes and IT project delivery methodologies, such as SDLC and EA standards, to effectively develop app solutions for major technology projects. Ability to contribute to the development of projects and enhancements/migrations.

6. Skill in problem solving to select, organize, 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. Examples include identifying technical issues that pose a risk to technology projects and working with business stakeholders to minimize and/or eliminate risks; integrating and developing solutions across different web/mobile technologies when technological advancements are introduced; and analyzing data and work from established procedures within the organization to manage the technical facets of major technology projects including ensuring projects are complying with established EA standards, and translating business requirements into sprint story boards or technical design specifications.

7. Interpersonal skills to interact effectively with business contacts in a businesslike, customer service-oriented manner.

8. Skill in oral communication to understand verbal information (including instructions, descriptions, and ideas), and to express such information verbally so that others will understand, and concerning some issues, be convinced or persuaded. This includes the ability to encourage effective oral communication by others, such as senior leadership, business stakeholders, and program and project managers regarding their web and mobile aps.

9. 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, and concerning some issues, be convinced or persuaded. This includes preparation of status reports and translating business requirements into executable sprint packages or technical design specifications. .

10. Skill in developing CRM API, such as Salesforce, NetSuite, SalesLogix, and Microsoft Dynamics, to achieve e-Business data integration services across multiple CRM systems that engage the Airports Authority client community (Airports Authority end-users, business stakeholders, vendors, and the traveling public) in a broader communications network, allowing clients to collaborate, exchange data, and conduct business across multiple technology platforms.

11. Skill in using a computer and (a) modern office suite software (such as MS Office) to plan, schedule, communicate, word process, prepare and develop reports, and perform research

(Internet use, as in keeping up with technology); (b) enterprise systems/software (such as ERP) to collect, store, manage and interpret data from business activities; and (c) specialty systems/software used in the Office for app development and other software development functions.

RESPONSIBILITY Is responsible for developing Airports Authority app across the domains of mobile technology, the web, and intranet. Work supports the strategic goals of the Airports Authority in terms of advancing e-Business opportunities for Airports Authority end-users, business stakeholders, vendors, and the traveling public.

Reports to the Manager, e-Business Solutions (Supervisor). Most work is accomplished independently, but requires cooperation with colleagues. Other work typically results from changes in the internal business environment (such as regulations/standards, business opportunities, strategic initiatives), which requires proactive measures or reactive responses to identify issues, solve problems, make recommendations, take action, etc. The incumbent collaborates with and keeps the Supervisor informed and typically elevates highly complex or highly sensitive issues for assistance in resolution. 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 developing of mobile, web, and intranet applications.

EFFORT The work is primarily sedentary, but requires moving about to obtain work information and typically involves exerting light physical effort such as opening/closing file drawers, retrieving files, etc. The incumbent may sit for extended periods while performing desk work. Regularly uses a computer, a telephone, and other office equipment. 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.