

***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 a Mobile Solutions Developer, in the Enterprise Business Innovation & Analytics (EBIA) Department of the Office of Technology (Office), Metropolitan Washington Airports Authority (Airports Authority). Creates, tests and implements mobile applications/solutions. Works closely with other EBIA developers and partners with the Enterprise Architecture (EA) team to understand the goals, processes, and technology requirements for developing mobile applications on a service oriented architecture (SOA) platform in a cloud infrastructure. Performs related functions.

--Designs and develops mobile application (apps) solutions across multiple platforms in iPhone Operating System (iOS), Android, and Windows.

--Provides expert-level technical support in developing and customizing mobile applications in iPhone Operating System (iOS), Android, and Windows using HTML5/AJAX/JS/ JQuery/REST for mobile web apps; and Unity/C# for iOS, Android, or mobile web apps with knowledge of Mobile Enterprise Application Platform (MEAP), Mobile Application Development Platform (MADP), and Mobile Device Management (MDM) software.

--Provides expert-level technical support in the development of mobile solutions with stimulating user interface using a range of technologies and database tools, native mobile applications, Hypertext Markup Language (HTML) 5-based applications, multi-tier and cross-platform mobile solution architectures, Software as a Service (SaaS) infrastructure, Service-Oriented Architecture (SOA) and Web Services, its principles, and its patterns at an enterprise level as they relate to mobile applications, mobile web technologies including Objective-C, Java, JavaScript Framework such as Angular, React, Node, JQuery or Ionic, Heroku, JavaScript Object Notation (JSON), Extensible Markup Language (XML), Hypertext Transfer Protocol (HTTPS), Hypertext Markup Language (HTML) 5, Cascading Style Sheets (CSS) 3, web services and web Application Program Interface (API).

--Provides expert-level technical support in the testing, analyzing of bug and crash reports, fixing problems, and optimizing performance of the applications.

--Ensures that the appropriate EA standards are used 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 as assigned.

--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 users.

--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 for time and attendance reporting and other functions; and (c) specialty systems/software used in the Office for application 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. Three years of progressively responsible experience in mobile solutions development that includes substantive work in most of the DUTIES in this job description, including: mobile application development in native, HTML 5 OR hybrid mobile application development in iPhone Operating System (iOS), Android, and Windows.

A fully equivalent combination of education and training beyond what is needed to satisfy MQ 1 above may be substituted for up to two years of these six years of experience. For example, a master's degree in any field that indicates the ability to successfully perform the DUTIES in this job description may be substituted for two years of experience.

## **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 developing apps with Hypertext Preprocessor (PHP), Drupal, Drupal Content Management System, Mobile Enterprise Application Platform (MEAP), Mobile Application Development Platform (MADP), and Mobile Device Management (MDM) software.

## **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 mobile application development across multiple platforms in iPhone Operating System (iOS), Android, and Windows.
2. Knowledge of native or hybrid mobile applications, Hypertext Markup Language (HTML) 5-based applications and multi-tier and cross-platform mobile solution architectures; iOS for iPhone/iPod/iPad apps development, and Java to develop Android applications.
3. Knowledge of Window mobile apps development, Mobile Enterprise Application Platform (MEAP), Mobile Application Development Platform (MADP), and Mobile Device Management (MDM) software to develop mobile applications.
4. Knowledge of mobile web related technologies including Objective-C, Java, JavaScript Framework such as Angular, React, Node, JQuery or Ionic, Heroku, JavaScript Object Notation (JSON), Extensible Markup Language (XML), Hypertext Transfer Protocol (HTTPS), Hypertext Markup Language (HTML) 5 and Cascading Style Sheets (CSS) 3, Service-Oriented Architecture (SOA), web Application Program Interface (API) and Web Services, its principles, and its patterns at an enterprise level to develop mobile applications.
5. Knowledge of business processes and IT project delivery methodologies, such as Software Development Life Cycle (SDLC), Agile methodology, the development of continuous integration, test driven development, Agile productivity tools and EA standards, to effectively develop application solutions for technology projects and to contribute to the development of projects, enhancements, and 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.
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

applications.

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. This includes preparation of status reports and translating business requirements into executable sprint packages or technical design specifications.
10. 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 mobile solutions. 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 a Program Manager in the Enterprise Business Innovation & Analysis Department (Supervisor). Most work is accomplished independently, but requires cooperation with colleagues. The incumbent and Supervisor jointly formulate application strategies, priorities and plans to most effectively meet the needs of business units and their end users. The incumbent works independently in carrying out assigned activities and keeps the Supervisor informed about significant issues. As a technical expert, work is expected to be complete and accurate and ensure utmost in availability, integrity and efficiency. The Supervisor typically reviews completed work in terms of objectives accomplished, adherence to requirements and IT policies and procedures, trade-offs, customer service, quality, quantity, timeliness, teamwork, 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 mobile 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