

***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 Drupal Web Developer in the Enterprise Business Innovation & Analytics (EBIA) Department of the Office of Technology (Office), Metropolitan Washington Airports Authority (Airports Authority). Executes Drupal application (app) development projects across the domains of mobile technology, the web, and intranet using Agile methodology, continuous integration, test driven development, and Agile productivity tools. Partners with the Enterprise Architecture (EA) team to understand the goals, processes, and technology requirements in a Service Oriented Architecture (SOA) platform on a cloud infrastructure; works closely with other developers on the EBIA team and other Office staff to deliver cross domain solutions. Performs related functions.

--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 Web based Content Management System (CMS) using Drupal. Develops, tests and deploys custom Drupal modules and integrates data between solutions using Application Programming Interface (API).

--Provides expert-level technical support in the development of Drupal web solutions using a range of technologies and database tools, such as Hypertext Preprocessor (PHP), Drupal Content Management System, client-side application interfaces, Node.js, JQuery, JavaScript Object Notation (JSON), JBOSS, Extensible Markup Language (XML), Hypertext Transfer Protocol (HTTPS), Hyper Text Markup Language (HTML), Cascading Style Sheets (CSS), Java/JavaScript, Advanced JavaScript libraries, web Application Program Interfacing (API), Web Services, SOA, Object-Oriented (OO) Principles, Cloud computing, Open source technology and Distributed System Architecture.

--Ensures that the appropriate Enterprise Architecture (EA) standards are adopted in the development of projects. Performs performance and scalability benchmarking and profiling of the web solutions and improves system stability, efficiency, quality, and consistency with the finished product(s).

--Assists in the maintenance of the Airports Authority's official website, intranet site, and associated apps and 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). Assists in the development of guidelines and standards for in-house code development and ensures that any vendor supplied code conforms to the EBIA Department standards for use in 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. Five years of progressively responsible experience in web and mobile software development that includes: (a) developing applications within a CMS using Drupal and Hypertext Preprocessor (PHP), Microsoft SharePoint, or Open Text in Java and/or .Net; (b) developing custom Drupal modules; (c) developing client side interfaces using HTTPS, HTML, CSS, JS, Java/JavaScript and advanced Java Script libraries, JQuery, JSON, XML, and web API.; (d) developing applications using HTTPS, HTML, CSS, JS, Java/JavaScript and JSP, JQuery, JSON, MVC Patterns, XML, and web API; and (e) adhering to business processes and conforming to information technology (IT) project delivery methodologies such as SDLC and EA standards.

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 five 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.
2. Experience in developing apps using .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 Drupal web development within a content management system (CMS) and of custom Drupal modules to develop, test, and deploy web applications.
2. Expert level knowledge of web technologies including PHP, HTTPS, HTML, CSS, JS, Java/JavaScript and JQuery, JSON, XML, and web API to integrate and develop Drupal web solutions across different technology platforms.
3. Knowledge of client side application interfaces to design user interfaces for web and intranet apps by establishing detailed program specifications utilizing software development lifecycle (SDLC) methodologies and tools.
4. 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.
5. 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.
6. Interpersonal skills to interact effectively with business contacts in a businesslike, customer service-oriented manner.
7. 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.
8. 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.

9. 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 web 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 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.