

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 non-career, term job at the Metropolitan Washington Airports Authority (Airports Authority). Serves as Front End / Digital Signage Developer in the Digital Signage Division of the Enterprise Business Innovation & Analytics (EBIA) Department of the Office of Technology (Office). Partners with the business stakeholders, software engineers, and analysts to develop innovative and visually striking, real-time web apps that work across a wide range of digital displays. Assists the EBIA team to continuously innovate and revamp the Airports Authority's digital display solutions to keep the traveling public, Airports Authority end-users, and business stakeholders engaged and informed of activities occurring at the Ronald Reagan Washington National Airport (DCA), Dulles Washington International Airport (IAD) and along the Dulles Toll Road. Performs related functions.

--Conceptualizes, designs, and prototypes new features across multiple devices including digital signage and kiosks. Utilizes best-of-breed experience design and design thinking. Moves seamlessly from whiteboard sketches and paper prototypes to designing interactive prototypes via Hypertext Markup Language (HTML), Cascading Style Sheet (CSS), JavaScript (JS), etc.

--Provides expert-level technical support in designing and developing client-side application interfaces for mobile, digital display, kiosk and web applications using a range of technologies and tools including Node.js, JavaScript Object Notation (JSON), Hyper Text Markup Language (HTML) 5, Cascading Style Sheets (CSS) 3, Bootstrap, Ionic Framework, Git, JavaScript, Advanced JavaScript libraries such as Node.js, Angular.js, Open Source technology and web Application Program Interfacing (API).

--Participates in user requirement sessions to understand end-user specifications and concerns. Participates in Joint Application Development (JAD) sessions to present strategic data initiative designs with advanced analytics, Software as a Service (SAAS) BI, Online Analytical Processing (OLAP) tools, and predictive modeling using Customer Relationship Management (CRM) and ERP data for data integration.

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

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

--May operate a motor vehicle airside and landside, on and off the Airport complexes, to attend meetings, visit jobs sites, and perform related 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 any 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 IT creating applications (i.e., designing and developing client-side application interfaces for mobile, digital display, kiosk and/or web applications) with a minimum of one year working in a Front-End/UX capacity designing interactive websites and client-side apps for customer audiences.

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. Bachelor's Degree in Computer Science, Graphic Design, Liberal Arts, or Human Computer Interaction.
2. Experience designing web and mobile apps.
3. Experience in software development projects in web and mobile technologies requiring the knowledge and use of HTML, CSS, JS, JavaScript, Angular.js, Node.js, JSON, and web API.

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 Airports Authority organization structure, operations, key programs and projects (especially air service development issues/initiatives and capital improvement programs/projects), Dulles Toll Road operations, Public Safety organization and mutual aid service communities, and associated airline, tenant, or concessions business requirements, processes, systems, functional needs, and associated technology requirements to collaborate with stakeholders and project managers, to identify programmatic/operational/financial factors and implications for digital displays, and to identify information/data for digital display signage.
2. Knowledge of front end applications development to conceptualize, design, and prototype new, interactive features across multiple devices including web sites, mobile apps, digital signage and kiosks utilizing best-of-breed experience design and design thinking; knowledge of client-side application interfaces for mobile, digital display, kiosk and web applications using a range of technologies and tools including Node.js, JavaScript Object Notation (JSON), Hyper Text Markup Language (HTML) 5, Cascading Style Sheets (CSS) 3, Bootstrap, Ionic Framework, Git, JavaScript, Advanced JavaScript libraries such as Node.js/Angular.js and web Application Program Interfacing (API); knowledge of audio / video equipment and terminologies, networking and wireless technologies, and kiosk/wall display installation and configuration altogether
3. 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 analyzing data and established procedures within the organization to assess the usability of new and existing web and app features and design new concepts that optimize the overall user-experience.
4. 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 preparing or reviewing written materials including project plans, documentation (including procedure guides) for digital displays, reports, routine correspondence and business justifications, etc.
5. 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. Examples include discussing needs with clients/users and exchanging ideas/concepts with team members.
6. Interpersonal skills to interact with business contacts in a businesslike, customer service-oriented manner.
7. Skill in using a computer and Uses a computer and (a) modern office suite software (such as MS Office) to communicate (email), plan, schedule, word process, prepare presentations and graphics, and perform or conduct research (Internet use); (b) enterprise

system/software for requisitioning time and attendance reporting and other functions; and (c) special systems/software used in the Office.

RESPONSIBILITY Is responsible for designing interactive, visually appealing, and user-friendly web applications for the Airports Authority's digital signage. Work supports the strategic goal of enhancing the Airports Authority's digital presence and therefore the assists the Airports Authority in creating a convenient, informative, and comfortable environment for the traveling public.

Reports to the Solutions Engineer (Supervisor). The Supervisor assigns ongoing functional responsibilities and makes special assignment within a framework of goals/objectives, priorities, and results desired. The incumbent plans and carries out work independently within this framework, keeps the Supervisor informed and brings highly complex matters to the attention of the Supervisor; the incumbent is expected to take a thorough and thoughtful approach to problem solving (including cross-functional and cross-organizational strategic problem solving) and present the Supervisor with options for action. Work is expected to be complete, thorough, appropriate, insightful, and creative and is subject to review in process and upon completion terms of quality, quantity, timeliness, customer service, teamwork, adherence to requirements, and other factors.

Guidelines and references include: 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.); Airport(s) policies and procedures regarding signage; the Airports Authority's Electronic Communications System Policy, PMO best practices, Information Technology Infrastructure Library (ITIL), and applicable hardware and software manuals/guides. The incumbent uses seasoned judgment to select, adjust, and apply guidelines to particular situations.

EFFORT The work is primarily sedentary and typically requires light physical effort as in opening/closing file drawers, lifting and carrying files/building plans, etc. Incumbent may sit for extended periods while performing desk work; however, moves about to obtain or distribute work materials, meet with people, and walk through Airport Terminals to view/monitor digital signage. Regularly uses a computer to develop reports, analyze cost proposals and perform other tasks; operates other office equipment. Frequently exchanges information by telephone. Regularly reviews contracts and regulations containing small print. In driving, operates vehicle using judgment in consideration of weather, traffic and other factors.

WORKING CONDITIONS Works primarily in an adequately lighted, ventilated, and temperature controlled office and conference rooms. May inspect new signage or the renovation of existing signage in areas under construction; wears appropriate personal protective equipment, exercises care, and follows safety precautions and procedures.

OTHER SIGNIFICANT JOB ASPECTS May be required to work night hours and/or weekends during the installation of new/reconfiguring signage.