



## **VDC MANAGER**

Department: Capital Programs  
Unit: 5120  
Level: 7, Exempt

Supervisor's Title: Senior Digital Design  
Manager  
Supervises: N/A

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**The VDC Manager Senior Digital Design Manager allows for the opportunity to be a major contributor to the growth of one of the busiest airports in the world as part of the Capital Programs and Digital Technologies Integration Group (DTIG). Will incorporate VDC/BIM into Massport's business processes and address technical challenges related to model maintenance, integration with other systems, etc. Responsibilities include direct contact and coordination with the design teams and general/trade contractors to ensure MPA's needs with respect to VDC/BIM are met.**

### **ESSENTIAL JOB TASKS:**

#### **Virtual Design and Construction (VDC)**

1. Train and assist members of MPA PMs and APMs in the use of VDC tools and processes.
2. Support model-first approach, workflows, and technology deployment for MPA Design and Construction projects.
3. Contribute to KPI's and metrics to evaluate and assess value, impact, ROI of established VDC initiatives.
4. Contribute to DTIG's process improvements and VDC initiatives.
5. Support the implementation of Massport's Autodesk Construction Cloud (ACC) throughout the department and lead the deployment for each specific project.
6. Manage deploying laser scanning and other innovative technologies for Massport capital projects.

#### **Building Information Modeling (BIM)**

1. Lead the development of project BIM execution plans and provide recommendations for program-level improvements to execution plans.
2. Oversee BIM utilization and on-time delivery of BIM submittals during design and construction phases of a project.
3. Research and standardize BIM workflows across design, construction and Asset Management practice as well as organizing and communicating BIM technical information to senior staff.
4. Assist in the utilization of BIM as a part of design reviews.

5. Attend design and construction meetings as needed to understand project scopes and to assist designers and contractors in understanding standards.
6. Oversee the development of Civil 3D base files from as-built records as they come in. Includes surface model, underground utilities, etc.
7. Support the Airside and Landside Engineering teams with Civil 3D design work for in-house design efforts.
8. Manage the maintenance of existing and newly developed BIM models (Revit and Civil 3D) to ensure all information is current, accurate and complete in accordance with VDC/BIM Guidelines.
9. Train APM's in use of Revit to increase the department's overall capabilities with these products.
10. Support the process of data collection and delivery for asset management and facility operations according to MPA's asset information requirements.

### **CAD/Civil 3D**

1. Assist with Civil 3D layout and design of airfield work completed as part of the Capital Program term contracts.
2. Assist with updating and maintaining floorplans for airport/seaport facilities.
3. Support the review of consultant design drawings for compliance with MPA standards
4. Coordinate with Project Managers to ensure timely delivery of as-builts.

### **ADDITIONAL JOB TASKS:**

- Support multiple capital projects at a given time.
- Maintain project central files, as appropriate.
- Provide in-house technical input and technical reviews in the area of professional expertise.
- Possess a high level of enthusiasm and commitment for mentoring all levels of staff.
- Perform other duties, as assigned.

### **JOB REQUIREMENTS AND QUALIFICATIONS:**

#### **Education**

Bachelor's degree desired in architecture, engineering, or construction management. Must have a minimum of three (3) years of experience in VDC/BIM and building design and construction or experience implementing design and construction technology.

#### **Experience**

Must have extensive hands-on experience with Revit, Navisworks, ACC, Civil 3D, Recap, and other relevant BIM tools. Experience in writing BIM standards and guidelines a plus. Aviation specific VDC project/program experience preferred.

Must have proven ability in managing VDC related tasks in major multidisciplinary projects.

### **UNIQUE EXPERTISE/CERTIFICATION/REGISTRATIONS:**

1. Ability to collaborate with and motivate established professionals, and external partners.
2. Must have extensive knowledge of the nuances, features, functions, and limitations of VDC processes and tools, including experience with Autodesk products.
3. Knowledge of Design-Bid-Build, Construction Manager at Risk, Design/Build, and other modern contractual delivery methods.
4. Understands project workflows from design, estimation, construction administration and coordination, and fabrication.
5. Knowledge of other spatial data concepts including GIS is a plus.
6. Familiarity with Building Condition Assessment concepts and experience of assisting with condition inspections and assessments is preferred.
7. Extensive capabilities with MS Office, including Excel, Outlook, Word, and PowerPoint. Knowledge of Teams and Power BI is a plus.

### **WORKING CONDITIONS**

Environmental Parameters:

Ability to work in an office and to travel to all Massport facilities. Ability to pass a Massport background check and obtain a Massport Security Badge. Ability to work in or on all MPA land and water vehicles.

**WORK SCHEDULE:** Ability to work a 37.5 hour work week, and ability to meet fluctuating workload demands, as necessary.