



Office of Human Resources
Building Information Modeling Analyst Senior - CI3199

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General Statement of Duties

Performs specialized and advanced performance professional level work using Building Information Modeling (BIM) technology to support city BIM processes and coordinate the distribution of data and models to and from other departments and processes including asset management, maintenance, operations, design, and construction processes. Serves as a technical expert for digital facilities and infrastructure (BIM, Civil Information Modeling, Virtual Design & Construction, and/or Asset Management) within the department for a specific area of expertise.

Distinguishing Characteristics

This class is part of the building information modeling (BIM)/digital facilities and infrastructure job family. This series consists of:

BIM Modeler – Performs standard level professional level work using Building Information Modeling (BIM) technology to support city Digital Facilities and Infrastructure (DFI) BIM processes and coordinate the distribution of data and models to and from other departments and processes including asset management, maintenance, operations, design, and construction processes.

BIM Analyst – Performs full performance professional level work using Building Information Modeling (BIM) technology to support city BIM processes and coordinate the distribution of data and models to and from other departments and processes including asset management, maintenance, operations, design, and construction processes.

BIM Analyst Senior – Performs specialized and advanced performance professional level work using Building Information Modeling (BIM) technology to support city BIM processes and coordinate the distribution of data and models to and from other departments and processes including asset management, maintenance, operations, design, and construction processes.

BIM Manager – Manages the functional and operational building information modeling (BIM) group, which includes implementing work plans based on annual goals and the strategic plan; resolves citizen, operational, and management issues; and achieves goals while ensuring resources are used appropriately.

Level of Supervision Exercised

By position, supervises professional level staff.

Essential Duties

Oversees complex, unprecedented, large, and multidisciplinary BIM technical projects by establishing, developing, and implementing industry accepted standards and procedures for the use of applications and services and promoting the adoption of these standards and procedures for professionals and users.

Consults with users and customers to evaluate facility and infrastructure design needs, provide technical guidance on applications and services, and develop solutions to meet user needs for data and analysis. Represents agency in meetings with consultants, management, elected officials, community members, or other impacted parties.

Directs and leads facility and infrastructure project activities to develop and implement related technology by proposing budget requests, solving technical field implementation problems, and provide support and training to users. Participates in strategic planning activities in conjunction with top level managers and other leaders in the department and participates in the development and implementation of goals, objectives, policies, priorities, and programs.

Serves as the subject matter expert on the technical operations of asset management systems used in data modeling and data distribution activities, which includes coordinating the maintenance of data life cycles and related business processes.

Determines requirements and assesses alternative data models for the future design of data sets then leads the design, testing, modification, and implementation of new data models.

Plans, prioritizes, and conducts project meetings with stakeholders and project staff to communicate milestones and completion dates; to provide technical advice and solutions, and to resolve issues that arise during a project; develops and maintains a communication plan and related project status report for key stakeholders.

Reviews and analyzes project changes requests and makes recommendations related to the execution of these requests, taking into consideration the impact on the project schedule, cost, and resources; directs the implementation of changes to project deliverables, resources, timelines, or budget.

Develops and implements plans to ensure compliance with industry standards, protocols, and established business practices; conducts risk and cost/benefit analyses, manages risk associated with projects, and devises strategies to deal with unexpected crises and unresolved risks.

Ensures the quality of project deliverables and obtains user acceptance of completed products or services; performs project closure activities including release of contract and permanent staff from the project, and completing lessons learned and project implementation review of best practices. Prepares reports and makes presentations to management, consultants, community members, or other impacted parties.

Serves as a technical and/or subject matter expert and provides training and mentoring to other staff members in the areas of project development, project design, project specification preparation, project management, contract management, quality control, and/or work program implementation.

Performs other related duties as assigned or requested.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

Competencies

Attention to Detail – Is thorough when performing work and conscientious about attending to detail.

Customer Service - Interacts with customers in a friendly and professional manner, works to resolve issues quickly and effectively, and is knowledgeable about products and services.

Interpersonal Skills - Shows understanding, friendliness, courtesy, tact, empathy, cooperation, concern, and politeness to others and relates well to different people from varied backgrounds and different situations.

Problem Solving – Identifies problems; determines accuracy and relevance of information; uses sound judgment to generate and evaluate alternatives, and to make recommendations.

Technical Competence – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

Technology Application – Uses machines, tools, instruments, or equipment effectively; uses computers and computer applications to analyze and communicate information in the appropriate format.

Working with People - Shows respect for the views and contributions of other team members. Shows empathy, listens, supports, and cares for others, and reconciles conflict.

Knowledge & Skills

Knowledge of digital facilities and infrastructure (BIM, CIM, VDC, and Asset Management) systems sufficient to be able to perform a variety of duties related to the work assignment.

Knowledge of computer hardware and software sufficient to be able to perform a variety of duties as needed.

Knowledge of information technology systems analysis, including system design, sufficient to be able to maintain current systems.

Knowledge of training techniques sufficient to be able to train others to perform the duties of the work assignment.

Education Requirement

Bachelor's Degree in Architecture, Construction Management, Computer Science, Engineering, or a related field.

Experience Requirement

Four (4) years of professional level experience working on multidisciplinary digital facilities and infrastructure or building information modeling projects which must include 2 years leading specialized or complex projects.

Education & Experience Equivalency

One (1) year of the appropriate type and level of experience may be substituted for each required year of post-high school education for all classifications.

Additional appropriate education may be substituted for the minimum experience requirements.

Licensure & Certification

By position, requires a valid Driver's License at the time of application.

Working Environment

Pressure due to multiple calls and inquiries.

Subject to pressure for multiple calls, inquiries, and interruptions.

Level of Physical Demand

2 - Light Work (10 - 20 lbs.)

Physical Demands

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Field of Vision: ability to adjust vision to bring objects into focus.

Fingering: picking, pinching, or otherwise working with fingers.

Handling: seizing, holding, grasping, or otherwise working the hand(s).

Hearing: perceiving the nature of sound by the ear.

Lifting: raising or lowering objects weighing no more than 20 pounds, from one level to another.

Reaching: extending the hand(s) and arm(s) in any direction.

Sitting: remaining in the normal seated position.

Talking: Expressing or exchanging ideas by means of spoken words

Vision Near acuity: ability to see clearly at 20 inches or less.

Carrying: transporting an object usually by hand, arm, or shoulder.

Balancing: maintaining body equilibrium to prevent falling over.

Repetitive motions: making frequent movements with a part of the body.

Eye/hand/foot coordination: performing work through using two or more.

Vision Far acuity: ability to see clearly at 20 feet or more

Depth Perception: ability to judge distances and space relationships

Field of Vision: ability to see peripherally.

Color Vision: ability to distinguish and identify different colors

Mental Demands: mathematical reasoning, memorization, oral comprehension, spatial orientation, and written comprehension

Walking: moving about on foot on uneven surfaces

Neck Flexion: Moving neck upward/downward

Personal Safety: aware of surroundings, people, and events

Agility: bends, stretches, twists, or reaches out with the body, arms, or legs

Background Check Requirement

Criminal Check

Employment Verification

Education Check

By position, Motor Vehicle Record

Assessment Requirement

None

Probation Period

Six (6) months

Class Detail

Pay Grade: I-816

FLSA Code: Y

Established Date: 8/11/2019

Established By: BM

Revised Date:

Revised By:

Class History: