



# Data & Analytics Engineer II

<b>Job Code</b>	20001034	<b>Job Family</b>	Technology	<b>Professional / Knowledge Worker</b>	
<b>Department</b>	Data & Analytics	<b>Reports to</b>	Sr Mgr Data & Analytics	<b>Union Status</b>	Non-Represented
<b>FLSA Status</b>	Exempt	<b>Pay Grade</b>	2057	<b>This Job is a Lead</b>	No
<b>Last Updated</b>	12/1/2022				

## Accountability for Workplace Culture

Our PUD values are at the center of our culture. Putting the safety, health, and well-being of our communities and those we work with is valued above all else and everyone on Team PUD must meet this commitment daily. Nothing we do in achieving our Mission is worth a single injury, and all who interact with us must feel they are valued and welcomed as individuals.

Everyone on Team PUD, in all positions, is accountable for achieving this safe and welcoming culture by:

1. Taking full ownership for the safety of themselves and their coworkers, while ensuring everyone feels valued and welcomed.
2. Taking action to identify and eliminate their own and others' at-risk behaviors, including the behaviors that may undermine another's feelings of being welcomed and valued.
3. Following all safety rules and regulations and ensuring the PUD's expectations for conduct and respect are maintained.
4. Openly sharing near-misses, safety learning opportunities, and ways we can learn to be a more welcoming place while encouraging others to do the same.
5. Utilizing Stop Work Authority to intervene with anyone, anytime, in any place.
6. Intervening or seeking guidance to stop actions that are harmful to the wellbeing, health, or sense of belonging of others, and which are detrimental to our PUD values.

## Job Summary

Leverage intellectual curiosity, business acumen and technical aptitude to solve complex business problems. Translate data into actionable insights through data science, data engineering and analytic techniques. Provide technical support to analytic application technology stack as well as analytic consulting to business functions, management and executive leadership.

## Accountabilities

### Accountability #1

Position Specific: Provide core development services for data engineering, analytics and the analytic technology stack by developing self-service data engineering solutions, developing actionable analytic solutions; and enhancing, testing and deploying analytic technology, and similar responsibilities.

### Accountability #2

Fiscal Management: Supports development of technology systems to ensure the delivery of cost effective and efficient maintenance through adhering to best practices and standards on behalf of our customers and stakeholders. Supports system reliability and availability Key Performance Metrics. Provides input to solutions that provide value and continually enhance operational processes, and similar responsibilities.

### Accountability #3

Operations: Supports in configuration, administration, support and maintenance of the District's computer systems. Install, develops, set up, and tests hardware and software systems. Troubleshoots and resolves technical issues as they arise. Provides customer support by responding to all technology requests, and similar responsibilities.

### Accountability #4

Business Innovation & Continual Improvement: Supports the implementation of system changes based on business needs, providing technical support in the analysis, evaluation of options, and solutions. Responsible for configuration/develop/administration, test, and documentation to ensure delivery of quality technical solutions that reliably and sustainably meet the needs of the Organization. Generally, works on changes with medium risk and business impact, and similar responsibilities.

### Accountability #5

Cyber Security (Security, PII and Confidentiality)/ Compliance: Supports the security and confidentiality of technological systems, processes and data on behalf of our customers and stakeholders by pursuing best practices designed for cyber security and the confidentiality of PII data; seek solutions that ensure

security and privacy of data; and provide input to operational processes as to how to continually improve them for better security and privacy of PII data, and similar responsibilities.

**Accountability #6**

Collaboration and Customer Service: Provides customer service (internal and external) through effective communication and collaboration to ensure technology needs are met to support District's mission in providing reliable and cost-effective service. Builds and maintains effective relationships with stakeholders inside and outside the organization (e.g., customers, peers, cross-functional partners, external vendors, alliance partners). Contributes to building and sustaining an inclusive and equitable working environment by supporting all District employees. Actively supports and encourages every team member to share their ideas in an open and inclusive manner, and similar responsibilities.

**Accountability #7**

**Accountability #8**

**Accountability #9**

**Accountability #10**

**Minimum Qualifications Note**

The minimum qualifications listed below are representative of the knowledge, skills, and abilities needed to perform this job successfully, as described in the Accountabilities. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential Accountabilities (duties and responsibilities) of this position. If you need assistance and/or a reasonable accommodation due to a disability during the application or recruiting process, please contact Human Resources at [HRRecruiting@snopud.com](mailto:HRRecruiting@snopud.com), or by phone at 425-783-8655.

**Qualifications – Education and Experience**

**Minimum Required Education and Experience:**

Bachelor’s Degree in Computer Science, Business, Mathematics or related field, AND  
Two (2) years of progressively more responsible experience in data management, analytics, or  
information technology;

OR

Six (6) years of progressively more responsible experience in data management, analytics, or  
information technology.

**Preferred Education and Experience:**

**Qualifications – License(s) and/or Certification(s)**

**Minimum Required License(s) and/or Certification(s):**

**Preferred License(s) and/or Certification(s):**

**Qualifications – Skills and Abilities**

**Minimum Required Skills and Abilities:**

- Apply the principles and practices of complex data engineering techniques and workflows in on-premise database or cloud data lake platforms with moderate guidance
- Apply the principles and practices of complex data modeling with moderate guidance. Including logical and physical data modeling concepts, relational and dimensional data modeling techniques
- Collaborate with data scientists in the integration of data science into data & analytic solutions. Including techniques such as propensity modeling, cluster analysis, machine learning, AI, optimization, and simulation
- Code in SQL, Python or R with moderate guidance
- Maintain and administer the enterprise analytic technology landscape with moderate guidance
- Follow UI and visualization design techniques
- Demonstrate ability in analytic visualization tools with little to no guidance
- Demonstrate ability in operational reporting concepts and tools with little to no guidance

Demonstrate ability in data engineering or integration tools with little to no guidance  
Develop key performance indicators to measure and optimize business capabilities  
Understanding of Agile project methodologies and tools  
Demonstrate intellectual curiosity and attention to detail  
Demonstrate business acumen through an understanding of business and operation's concepts, processes and the systems that support them  
Perform technical analysis of moderately complex system related problems and provide resolution options  
Review vendor maintenance notifications and associated action plans and determine and implement appropriate actions  
Serves as a liaison between business, technical staff, management, and vendors regarding service requests, change requests, usage, standards, and security  
Apply business planning concepts and practices in decision making and carrying out job responsibilities  
Communicate with audiences of varying levels demonstrating solid business oral, writing and presentation skills  
Interpret technical information and explain in understandable terms  
Perform critical thinking using a structured approach to problem identification, analysis, and solution identification  
Use independent and discretionary judgment and apply risk and impact analysis in decision making  
Work with and maintain confidential information  
Work collaboratively in a team environment with a commitment to the overall success of the group  
Develops complex solutions and contributes to analytic technology standards  
Manage vendor deliverables and expectation to achieve successful outcomes

***Preferred Skills and Abilities:***

**Competencies**

The following competencies describe the cluster of behaviors associated with job success in the job group identified as “Professional / Knowledge Worker”.

- Adaptability
- Building Customer Loyalty
- Building Partnerships
- Communication

- Continuous Improvement
- Continuous Learning
- Courage
- Decision Making
- Earning Trust
- Emotional Intelligence Essentials
- Facilitating Change
- Influencing
- Initiating Action
- Innovation
- Leveraging Feedback
- Mentoring
- Planning and Organizing
- Positive Approach
- Professional Knowledge and Aptitude
- Stress Tolerance
- Technology Savvy
- Valuing Differences
- Work Standards

## Physical Demands

### Physical Demands List

### Frequency

Sit	Frequent (34-66%)
Walk	Occasional (11-33%)
Stand	Occasional (11-33%)
Drive	Seldom (1-10%)
Work on ladders	Never
Climb poles or trees	Never
Work at excessive heights (note heights in open text box below)	Never
Twist	Never
Bend/Stoop	Never
Squat/Kneel	Never
Crawl	Never
Reach	Never
Work above shoulders (note specific activity in open text box below)	Never
Use Keyboard /mouse	Constant (67-100%)
Use wrist (flexion/extension)	Never
Grasp (forceful)	Never
Fine finger manipulation	Constant (67-100%)

Operate foot controls	Seldom (1-10%)
Lift (note weight in open text box below)	Never
Carry (note weight in open text box below)	Never
Push/Pull (note specifics in open text box below)	Never
Work rapidly for long periods	Never
Use close vision	Constant (67-100%)
Use distance vision	Seldom (1-10%)
Use color vision	Frequent (34-66%)
Use peripheral depth perception	Seldom (1-10%)
Speak	Frequent (34-66%)
Hear	Frequent (34-66%)

**Additional Physical Demands not listed above and associated frequency below.**

## Mental Demands

### Communication

	Frequency
Understand and carry out simple oral instructions	Frequent (34-66%)
Understand and carry out complicated oral instructions	Occasional (11-33%)
Train other workers	Seldom (1-10%)
Work alone	Frequent (34-66%)
Work as a member of a team	Frequent (34-66%)
Follow standards for work interactions	Constant (67-100%)
Write communications for clarity and understanding	Occasional (11-33%)
Speak with clarity with others	Frequent (34-66%)

### Comprehension

	Frequency
Read and carry out simple instructions	Frequent (34-66%)
Read and carry out complicated instructions	Occasional (11-33%)
Retain relevant job information	Constant (67-100%)

### Reasoning

	Frequency
Read and interpret data	Constant (67-100%)
Count and make simple arithmetic additions and subtractions	Frequent (34-66%)
Use intermediate and/or advanced math	Occasional (11-33%)

### Organization

	Frequency
Plan own work activities	Occasional (11-33%)
Plan work activities of others	Seldom (1-10%)
Direct work activities of others	Occasional (11-33%)

<b>Resilience</b>	<b>Frequency</b>
Work under pressure	Occasional (11-33%)
Work for long periods of time	Seldom (1-10%)
Work on several tasks at the same time	Frequent (34-66%)

**Additional Mental Demands not listed above and associated frequency below.**

<b>Work Environment</b>	
<b>Environmental Conditions List</b>	<b>Frequency</b>
Exposure to weather	Never
Wet and/or humidity	Never
Atmospheric conditions	Never
Confined/restricted working environment	Never
Vibratory Tasks – High	Never
Vibratory Tasks – Low	Never

**Additional Environmental Conditions in this job not listed above and the associated frequency below.**

<b>Risk Conditions List</b>	<b>Frequency</b>
Exposure to Heights	Never
Exposure to Electricity	Never
Exposure to Toxic or Caustic Chemicals	Never
Working with Explosives	Never
Exposure to Radiant Energy	Never
Extreme Cold	Never
Extreme Hot	Never
Proximity to Moving Mechanical Parts	Never
Noise Intensity	Never
Exposure to animals	Never
Working with angry customers	Never

**Additional Risk Conditions present in this job not listed above and the associated frequency below.**



## On-Call Status and Frequency

**On-Call is required.**

- Yes
- No

**On-call activities and frequency.**

## Work Location

**The primary assignment for this position is:**

- Remote
- Office Hybrid
- On-Site
- Field/Job Site

While this description has provided an accurate overview of responsibilities, it does not restrict management's right to assign or reassign duties and responsibilities to this job at any time. This position description is designed to outline primary duties, qualifications, and job scope, but not limit our employees or the organization to complete the work identified. In order to serve our customers best, each employee will offer their services wherever and whenever necessary to ensure the success of the District in serving our customers, to further the safety, health, and inclusivity of employees and the public, and achieve expectations of the District overall, while also remaining flexible in recognition of the employee's wellbeing.