

**The City of Dallas**  
**Class Specification**

<b>Title:</b>	<b>Data Engineer</b>	<b>Class Code:</b>	<b>36530</b>
<b>Application:</b>	<b>Career Series</b>	<b>Pay Grade:</b>	<b>N</b>
<b>Supplemental/Code:</b>	<b>Professional/1</b>	<b>Established:</b>	<b>10/01/14</b>
<b>FLSA Status:</b>	<b>Exempt</b>	<b>Revised:</b>	<b>10/01/14</b>

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**Position Purpose:**

Implements complex big data projects with a focus on collecting, parsing, managing, analyzing and visualizing large sets of data to turn information into insights using multiple platforms. This position makes decisions regarding the hardware and software design needed for the project and acts according to the decisions. The Data Engineer will develop prototypes and proof of concepts for the selected solutions.

**Essential Functions:**

1. Designs, builds and maintains data frameworks (ingestion, processing, distribution, access) for the City of Dallas core data platform.
2. Designs and implements data models that scale across the enterprise. Works closely with stakeholders (Reporting team, Analyst and Business) and source system domain experts.
3. Adopts a mindset to support Business data projects.
4. Helps drive a best-in-class data engineering practice that will be leveraged across City IT data operations.
5. Works across multiple cross-functional teams in high visibility roles and owns the data solution end-to-end.
6. Oversees proper data architecture, data engineering standards and best practices, collaborating with existing data resources to set cutting edge industry standards.
7. Participates in setting strategies and standards through data modeling and implementation, leveraging big data and analytics tools and technologies.
8. Engineer's structured and unstructured data from source systems to fit business needs.
9. Maintains effective ongoing communications with the business and data science community.
10. Regular, reliable and punctual attendance is an essential function of the job.

**Knowledge, Skills and Abilities Required to Perform Work**

Thorough knowledge and proficiency with big data tools and solutions.

Knowledge of object-oriented programming and strong analytical ability / debugging skills.

Knowledge of developing software against 3rd party APIs / web services and working with vendors to identify and correct issues and drive enhancements.

Knowledge of managing a data environment for development of data projects.

Ability to work on and manage multiple concurrent projects for multiple stakeholders is essential.

Ability to thrive when given broad objectives with minimal supervision; enjoy a fast paced “startup” like environment.

Ability to establish and maintain an effective working relationship with all levels of management, city officials, vendors, other government agencies, other employees and the public.

Ability to communicate effectively both orally and in writing.

**Working Conditions and Hazards:**

Work performed under normal office conditions.

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The above statements are intended to describe the general nature and level of work performed by personnel assigned to this classification and is not necessarily an exhaustive list of all responsibilities, duties and skills required.

