
Job Title: Data Engineer**Location:** Service Center**Department:** Data Strategy**Job Status:** Full-Time**Reports To:** Data Analytics Supervisor**Job Grade:** 605**Pay Status:** Exempt**Date Created/Updated:** 8/9/2023

Position Summary

The Data Engineer is responsible for providing technical and analytical guidance to applications team members and interacting with the user community to automate and improve business processing and assist with user understanding of their applications software.

Essential Duties & Responsibilities

Responsibilities

- Extract, transform and load data from multiple internal and external sources.
- Design, develop, clean, manage, and analyze data and dataflow.
- Provide detailed documentation of data transformation rules.
- Fix bugs; document, communicate and share specifications for solutions.
- Build, execute, and document unit tests and integration tests.
- Demonstrate ownership and timely responses to production problems and business unit inquiries.
- Support and maintain relational database structures
- Provide functional support for various systems.
- Provides technical and analytical guidance to applications users.
- Work on project teams as a member or leader, as assigned.
- Plan and coordinate test to production movement of upgrades and updates to applications, interfaces, and work flows.
- Provides peer review of code and tests.
- Performs other duties as assigned.

GENERAL RESPONSIBILITIES

- Maintain regular attendance; leave schedule should be managed so as to not interfere with ability to accomplish tasks, including special projects and assignments with deadlines or negatively affect direct reports' ability to do their jobs when applicable
 - Adhere to NBU safety guidelines and practices at all times and in all situations
 - Maintain a clean and safe work area, office, field site and vehicle as applicable
 - Develop & maintain effective customer service skills for communications with co-workers, customers and the public in general
 - Maintain strict confidentiality of business, employee and customer information in written and oral communications and safeguard sensitive documents
 - Adhere to NBU policies and procedures
 - Exemplifies NBU Core Values of Integrity, Stewardship, Culture, Team and Safety
 - Participate in and support initiatives to reach annual NBU Performance Measures
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Formal Education and Work Experience Requirements

Degree/Diploma Obtained: Bachelors

Other: Bachelors Degree in Computer Science or related field from an institution accredited by a nationally recognized accrediting agency.

Work Experience Time Frame: Three Years or More

Field of Study: Computer Science

Certification and Licensures Requirements

A valid Texas Driver's License is required to operate a company vehicle if necessary.

Other Minimum Qualifications

- Must be available to periodically work after normal business hours or on weekends for emergency.
- Ability to work in the United States without sponsorship.
- Analytical and critical thinking skills.
- Experience using SAS 9.4; Data Integration Studio, Viya, Data Flux (nice to have)
- Experience building multiple APIs such as MultiSpeak, REST, SOAP, JSON, JMS.
- Experienced SQL programmer.
- Proficient in Object Oriented design and programming.
- Experienced in Python
- Experience with version control tools such as Git.
- Strong sense of efficiency and high performance for coding.
- Knowledge of data structures and algorithms.
- Well organized, strong work ethic and willingness to work hard to achieve employer objectives.
- Proficient with MS SQL Server to develop and maintain relational database structures.
- Experienced participant in major software project implementations.
- Communicates effectively both verbally and in writing.

Knowledge of Computer Software

	No Knowledge	Beginner	Intermediate	Expert
Arc GIS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AutoCAD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crystal Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Microsoft Access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Microsoft Excel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Microsoft Word	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Microsoft Publisher	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Microsoft PowerPoint	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other Software Knowledge

- Exposure to Advanced Metering Infrastructure, Meter Data Management, Supervisory Control and Data Acquisition, -Geographic Information System, Customer Information System, Outage Management System
- Exposure to SAS 9.4, MDM, and Viya.
- Exposure to Enterprise Data Warehouse concepts, tools and reports
- Experience with or exposure to Big Data technology
- Experience with or exposure to Master Data Management
- Experience with or exposure to data governance software
- Experience with data integration and reporting technologies
- Experience with Oracle PL/SQL
- Experience with MS Visual Studios and SSRS or other data integration and reporting technologies.
- Proficient with Microsoft Office, MS Project, and Visio.
- Proficient with Windows and Linux operating systems.

Experience with Machines, Tools, Equipment and Other Work Aids

Telephone, calculator, copier, fax, personal computer, printer, related software.

Physical Demands

Standing: Occasionally

- Making Presentations
- Observing Work Sites
- Observing Work Duties
- Communication with Co-Workers

Fine Dexterity: Constantly

- Computer Keyboard
- Telephone Keypad
- Calculator
- Calibrating Equipment

Walking: Occasionally

- To Other Departments/Office/Office Equipment
- Around Worksite

Carrying: Occasionally

- Supplies
- Equipment
- Files

Sitting: Constantly

- Desk Work
- Meetings
- Driving

Reaching: Rarely

- For Supplies

For Files

Handling: Constantly

- Paperwork
- Monies

Kneeling: Occasionally

- Filing in Lower Drawers
- Retrieving Items from Lower Shelves/Ground

Pushing/Pulling: Occasionally

- File Drawers
- Equipment
- Table and Chairs
- Hose

Climbing: Occasionally

- Stairs
- Ladder
- Step Stool
- Onto Equipment

Vision: Constantly

- Reading
- Computer Screen
- Driving
- Observing Worksite

Foot Controls: Occasionally

- Driving
- Operating Heavy Equipment
- Dictaphone

Balancing: Never

- On Ladder
- On Equipment
- On Step Stool

Bending: Rarely

- Filing in Lower Drawers
- Retrieving Items from Lower Shelves/Ground
- Making Repairs

Crouching: Rarely

- Filing in Lower Drawers
- Retrieving Items from Lower Shelves/Ground

Other: [Click or tap here to enter text.](#)

Crawling: Rarely

- Under Equipment
- Inside Attics/Pipes/Ditches

Hearing: Rarely

- Communication Via Telephone/Radio/To Co-Workers/Public
- Listening to Equipment

Twisting: Occasionally

- From Computer to Telephone
- Getting Inside Vehicle

Talking: Occasionally

- Communication Via Telephone/Radio/To-Co-Workers/Public

Environmental Factors

	Never	Seasonally	Several Times Per Year	Several Times Per Month	Several Times Per Week	Daily
Extreme Temperature (Heat, cold, extreme temp. change)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wetness and/or humidity (bodily discomfort from moisture)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory Hazards (Fumes, gases, chemicals, dust, and dirt)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Noise and Vibration (sufficient to cause hearing loss)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Hazards (High voltage, dangerous machinery, aggressive Customers)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Health and Safety Conditions

	Never (Never Occurs)	Rarely (Less than 1 hour per week)	Occasionally (1/3 or more of the time)	Frequently (From 1/3 to 2/3 of the time)	Constantly (2/3 or more of the time)
Mechanical Hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical Hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical Hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire Hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communicable Diseases	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Physical Danger or Abuse	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other: [Click or tap here to enter text.](#)

Primary Work Environment: Office Environment

Other: [Click or tap here to enter text.](#)

Overall Strength Demands

- Sedentary - Exerting up to 10 pounds occasionally or negligible weight frequently, mostly sitting
- Light - Exerting up to 20 pounds occasionally, 10 pounds frequently, walking or standing often
- Medium - Exerting 20 - 50 pounds occasionally, 10 - 25 pounds frequently, or 10 pounds constantly
- Heavy - Exerting 50 - 100 pounds occasionally, 25 - 50 pounds frequently, or 10 - 20 pounds constantly
- Very Heavy - Exerting 50 pounds constantly

Non-Physical Demands

	Never	Rarely	Occasionally	Frequently	Constantly
Time Pressure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Emergency Situations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frequent Change of Task	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Irregular Schedule/Overtime	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Performing Multiple Tasks Simultaneously	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Working Closely with Others as Part of a Team	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedious or Exacting Work	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Noisy/Distracting Environment	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other: Click or tap here to enter text.

Employee Statement of Understanding

THIS JOB DESCRIPTION DOES NOT CONSTITUTE AN EMPLOYEE AGREEMENT BETWEEN NEW BRAUNFELS

UTILITIES (NBU) AND THE EMPLOYEE. Nothing in this position description restricts NBU's ability to assign, reassign or eliminate duties and responsibilities of this job at any time.

I HAVE READ AND RECEIVED A COPY OF THIS JOB DESCRIPTION.

Employee's Signature

Employee's Printed Name

Date