Senior Systems Integrator

(Data Science and Visualization)  
Job # 48634

Technology Services Division

December 2024

**PRE-INTERVIEW ASSIGNMENT**  
**INSTRUCTIONS**

**Pre-Interview Assignment Instructions**

1. Thank you for applying to the position of Senior Systems Integrator (Data Science and Data Visualization) and for taking the time to complete this pre-interview assignment.
2. The purpose of this assignment is to help us learn more about your approach in tackling data science and data visualization projects.
3. The pre-interview assignment question:

*Based on our client’s service results data from the last few years, identify and visualize trends in service performance. What insights can you gather that would be beneficial for our client? Showcase these insights and provide visualizations/dashboards that enable the client to track and explore service performance trends as the supporting dataset grows over time.*

1. As you complete this assignment, please document your process and work in a way that would make it reproducible by another team member.
2. What should you submit with this pre-interview assignment?
   1. **“Show your work” artifact** that could be a GitHub repo, a word document, a PowerPoint presentation with a series of annotated Tableau prep screenshots, etc. This artifact(s) should enable another team member to recreate the same analysis and data visualization(s) or dashboard
   2. A **series of data visualizations or dashboards** that identify and visualize trends in service performance using the example test data. This artifact can be submitted as a web link to the platform/tool you used, a video, or an embedded file.
   3. A **presentation deck** that outlines your approach to data analytics and visualization projects, how you applied that approach to this assignment, and the results/insights of your analysis. When outlining your approach to this assignment be sure to justify the tools and techniques you chose. This presentation will be delivered during the first 10 minutes of your interview.

1. Good luck with the assignment!