Congratulations! We are pleased to invite you to the second phase of the application process for the Manager, Data Analytics role at the School of Public Health at Washington University in St. Louis. This will consist of two elements, (1) interviews with SPH faculty and (2) a data exercise followed by a short presentation/discussion.

Overview:
Each candidate is required to complete the data exercise described below. This exercise should not take more than 8 hours to complete. Your completed work must be submitted to *ben.cooper@wustl.edu no later than 5pm CST on Monday 10/27/25.* After this you will present and discuss your work with Ben Cooper, Director, Data Management and Analytics at the scheduled day/time. *Note: The submission deadline for the exercise is fixed regardless of the day/time scheduled for presentation of the results.*

Data Analytics Exercise
Review the topic and the publicly available data below. Use descriptive or exploratory statistics to demonstrate your review process. Build two (2) multivariate models exploring relationships within the topic. Please share code that you used to manipulate the data, create new variables, etc. when you submit the exercise results.

For the scheduled debrief: Prepare to explain the statistical models you used, why you selected them, and how you assessed model fit and assumptions. Describe your thought process, results and conclusions.

Topic	Source	Data Description
Explore the relationship between type of crime, neighborhoods, and seasons.	St. Louis City Police Department (2021-2023)	The St. Louis Metropolitan Police Department utilizes the National Incident Based Reporting System (NIBRS) to collect and track crime data. NIBRS captures details on each single crime incident—as well as on separate offenses within the same incident.

Main Page & Details: https://slmpd.org/stats/
Direct link to the data: https://slmpd.org/wp-content/uploads/2024/03/2021-2023.csv