

**Introduction:**

Welcome to the Bid Ops Data Team candidate project! We want this project to give you a taste of the type of data analysis we do at Bid Ops. We cannot stress enough that this project should take less than 4 hours, and should not take precedence or interfere with your existing life, work, and family priorities. There is no hard deadline for completion, however a target date was probably set before handing this over. If you need extra time, feel free to ask. Thank you very much for participating, this is meant to be fun and informative above all else!

**Goal:**

Assume you have been given the attached data folder by a business stakeholder and asked to briefly analyze it. Please ingest, join, and transform the given data to produce at least 3 interesting descriptive statistics/metrics and 2 interesting visual representations of the data. There are no right answers we are looking for, and visual aesthetics are not important. You will be evaluated on 1. the process used to create the metrics and visuals (code, tool usage, etc) 2. on the accuracy of what you are presenting to your business stakeholder 3. How informative vs actionable the consumables are. We fully recognize that open-ended data projects can have vague expectations and goals. That is somewhat the point of this process, but try to focus on what you think is important and we're sure we will too. We just want to understand how you approach and analyze data, and how you present any insights you find.

**Tools and output:**

You can use whatever tools you want to do this task, however please provide the output and relevant files to how you completed the task. For example, if you used Microsoft Excel, you should provide the .xlsx/.csv files with computed columns, pivot tables, charts, etc. If you used R or Python, please attach any code scripts and outputs from the code (i.e. image files). If you used a Jupyter notebook or something similar, please provide that notebook file. If you would like to use any other proprietary/paid tool, please just confirm with Eric before proceeding. In these cases you should provide screenshots of the data analysis process to the best of your ability.

**Data Folder:**

Best\_Cities\_for\_Startups.csv

Best\_Countries\_for\_Startups.csv

City\_Populations.csv

Country\_Metadata.csv

**Completion:**

Please email [Eric@BidOps.com](mailto:Eric@BidOps.com) with the results of your project and share a brief note about accessing your work and any other relevant information. We will schedule a meeting to talk about your work, answer any questions you might have, and discuss next steps in the process. Thanks!