



**#GetUsPPE**

COVID-19 Rapid Response  
www.getusPPE.org

# Data Scientist

**Organization | GetUsPPE**

**Reports To | Director, Product + Technology**

**Location | Remote**

**Add'l Focus | Data Visualization, Predictive Analysis**

**Job Overview:** GetUsPPE seeks a lead data scientist to direct and oversee the data science division of the technology team to better understand the real time supply and demand data within the GetUsPPE database. The ideal candidate will be self-directed and eager to work with our dynamic team to support our core operations towards fast-paced and nimble crisis response.

**About Us:** GetUsPPE is a national non-profit dedicated to providing donated PPE to frontline healthcare workers. We were founded by a group of physicians in March 2020, and quickly merged with an amalgam of other grassroots groups (including software developers, regional distribution affiliates, makers, and medical students). We have developed the country's largest database of healthcare demand for donated PPE. Our technological solutions include a linear-programming- based matching algorithm, a website that allows for gathering of needs data and supplies available, a fairness framework to ensure equitable distribution of PPE, and a Just in Time allocation system that allows for existing supply to fill high demands throughout the country. Delivery of donations occurs through a distributed grassroots network as well as through partnerships with corporate entities. We partner with 47 regional affiliates and 26 other organizations, including ProjectN95, a non-profit organization that provides reliable and transparent purchasing of PPE for healthcare organizations, and Nation of Makers, a non-profit dedicated to supporting maker spaces and makers across the country. GetUsPPE is also a founding member of the C19 Coalition.

**About the Role:** The purpose of the data scientist is to:

- Build the infrastructure for a real time visualization API
- Interact with GetUsPPE demand data to determine areas of high need
- Understand factors that predict highest need based on existing needs data linked with external available data such as covid case incidence and facility type.
- Manage a team of data science volunteers
- Collaborate with supply-demand match team to generate recipient lists



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- Participate in improving our technology infrastructure from the perspective of data and analytics

### **Duties and Responsibilities:**

- Descriptive analysis of GetUsPPE data sets using programming solutions (Python experience required)
- Visualization + hot spot analysis, using ArcGIS, Mapbox, or other geospatial analysis tools
- Track your own work using the methods in place by the supply-demand matching team and the technology team, including Jira for internal project management, Git for version control, and proprietary software
- Stay up-to-date with the work of the database team, predictive data team, data integrity team to ensure internal data validity
- Work with the healthcare outreach team to ensure representative sampling within our database
- Work with our data to generate real time visualizations to support PR / media + donor requests for data, work with potential research partners to give limited API access, or other follow-up in accordance with GetUsPPE data sharing policies
- Collaborate with other teams for process improvement, logistics management, and volunteer logistics fulfillment
- Coordinate with the partnerships team to use data to inform government, non-profit, and economic partners on reopening policies and the interface with PPE availability
- Periodic reports to the executive board on the status of PPE nationwide and organizational impact

### **Qualifications:**

- Bachelor's degree; data science or related experience
- Completed degree(s) from an accredited institution that are above the minimum education requirement may be substituted for experience on a year for year basis

### **Knowledge, Skills, and Abilities Required:**

- Strong interpersonal and communication skills



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- Excellent interpersonal skills and the ability to explain complex concepts to colleagues and leaders from all backgrounds
- Development, planning, and implementation of short- and long-range goals
- Technical skills for data & analytics, visualization and predictive modeling (Python, OOP techniques)
- Desire to build + lead a team (5+ team members) of skilled volunteers looking to make a difference in COVID-19 response
- Familiarity with preparing data for media requests + public distribution
- Experience using BigQuery, data warehouses, and relational DBs (PostgreSQL)
- Experience with data visualization tools, such as D3.js, GGplot, etc.
- Experience working with uncleaned data and defining processes to improve data quality
- Manage confidential information
- Minimum 3 years of data science, analytics or engineering work experience
- Minimum 1 year of management experience

### **Working Conditions and Physical Effort:**

- No or very limited physical effort required.
- No or very limited exposure to physical risk.
- Work is normally performed online from home.

### **Compensation:**

\$75,000 - \$90,000 depending on experience.

This is a full time position. The organization is virtual and widely distributed and therefore, candidates can be located anywhere in the United States. For more information about GetUsPPE, please visit <https://GetUsPPE.org/>.

GetUsPPE is an equal opportunity employer and welcomes a diverse pool of candidates in this search. To express interest, please send a cover letter and resume to Emily Lynn at [emily@getusppe.org](mailto:emily@getusppe.org).

### **Key Performance Indicators and Benchmarks:**

- Reduce response time for media + donor data requests to (< 3h for initial response; < 24h for intermediate-level responses; < 48h for complex-level responses)
- Participate in weekly check-ins with Director, Product + Technology



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- Assist Director in overseeing the Data Team, holding weekly Data Team meetings and serving as the primary manager for Data Team Members