

Statement of Work Data Analytics and Visualization

1) Base Period: Six (6) month period of performance period

The Emerging Commercial Space Office at NASA Ames would like to procure text-data analytics and visualization services to better understand and visualize the trends and discussions taking place in industry, academics, and government in areas of commercial space technologies and industries that are of interest to NASA.

NASA Ames would like to purchase no more than 100 working hours with a Data Scientist to be used over a six (6) month performance period that has the capability to explore structured data of private companies, news events and patent activity via quantitative visualization software. The Data Scientist shall run queries on their company software and help analyze the results in-person or over the phone and provide visualization of the analysis. The software that the Data Scientist is running should be able to:

1. Access extensive data from industry, academia, and government
2. Provide up-to-date, real time data coverage on news events, patents and private company activity and be able to process the large volume of real time data using a high throughput data capture system.
3. Identify key technologies and patterns and relationships within a dynamic technology landscape and be able to quickly visualize patterns, trends, and relationships as they emerge and develop.

The data scientist should also have access to personnel within their company that are experts in data science, machine learning, algorithm design, computer science, applied physics, and many other technical fields.

Sessions with a Data Scientist can take place virtually over a web conferencing service, or at Ames, or at the company, if necessary. For each session, the Data Scientist will have prepared a series of data explorations along with initial insights to share with NASA Ames based on a question or questions made in advance of the session. For example, NASA Ames may want to see the latest trends in news activity for the topic of “Emerging Commercial Space.” The data scientist will prepare a data network, aggregate major communities and themes and offer additional meta-data to layer on top of the primary network.

With NASA Ames personnel, the Data Scientist will answer the initial questions while raising new questions that continue the exploration of the data. The session will typically last 2-4 hours until sufficient knowledge is extracted from the data to gain the insights necessary for NASA Ames to fully understand the topic and be able to report on the topic inside his or her organization.

2) Option Period 1: Twelve (12) months Period of Performance

The option period covers the same work detailed in the Base Period. The Governmental shall purchase no more than 34 additional hours from a data scientist over the Option Period 1 performance period.