

Bridging Technologies

Scope	Capability Demonstration (Brief description of demonstrated past performance)	Past Performance Date	Past Performance Agency	Business Size (Large/ Small)	Social Economic Category (SB, WOSB, 8a, VOSB, HubZone.....)	Vendor Name	Vendor Address	Vendor Duns	Anticipated Teaming Partners
Contractor shall demonstrate their ability to develop machine learning models that are specific to data characteristics that are within databases, scanned forms, pdf forms, and charts.	BT experts use supervised learning when particular goals are specified to be achieved from a set of inputs, i.e., a "task-driven strategy" that uses labeled data to train algorithms to classify data or forecast outcomes, for example—detecting spam-like emails. Our consultants use the two most common supervised learning tasks: classification (predicting a label) and regression (predicting a quantity) Bridging Technologies supported improving DEBS through conceptual analysis, requirements analysis, design assessment, deployment, data modeling, process modeling, screen mockups, testing and implementation, and documentation of the software applications/ modules. Creating new sub-systems such as a Congressional tracking system, and numerous other systems that would continue DEBS' move to budget automation. We automated previously manually entered systems on both the agency and legislative sides of the budgeting process, significantly reducing error and streamlining reporting. These changes allow the client to track and re-allocate funds in real time. Systems included personnel and compensation projections; legislative funding recommendations; and Office of Management and Budget schedules. Bridging Technologies provided on-site support of the DEBS program, requiring synchronization of the DEBS environments to be consistent across all platforms. This included document doctype, SQL server database, DEBS application, DBLoader application, Job Manager application, BPI application, and IBM Cognos reporting engines. Our team incorporated into the synchronization process a method by scrambling data to be inconsistent with live production data (random additional values). Using "best practices" system administration across all of the DEBS environments to include, but not limited to: production, staging, test, development, training, and quality assurance.	Sept 2015	Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate their ability to analyze data points and develop models and filter codes to identify anomalies within different forms received by the IRS.	An important technique for anomaly detection (or outlier detection) is developing an algorithm identification of rare items, events or observations which raise suspicions by differing significantly from the majority of the data. Typically, anomalous data can be connected to some kind of problem or rare event such as e.g. bank fraud, medical problems, structural defects, malfunctioning equipment etc. This connection makes it very interesting to be able to pick out which data points can be considered anomalies, as identifying these events are typically very interesting from a business perspective. Bridging Technologies established and maintained the project management plan, including monitoring and adjusting a work breakdown structure, schedule, and resource requirements to ensure successful ongoing operations of the DEBS program. Bridging Technologies prepared a quarterly scorecard comprised of several elements including benefit cost analysis and goal reporting. The findings of this scorecard were presented to the client in various committee meetings.	Sept 2011	U.S. Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Departmental Budget Center (DBC), Departmental E-Budget Suite (DEBS)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate how they apply different types of static data points to fraud, identity theft, anomalies, and authentication.	BT experts apply different types of statistical data analysis in the pursuit of auditing and authentication of data. One common way our consultants use is referred to as condition monitoring, where our software look at each KPI measurement from the source data and imposes a minimum and maximum value limit on it. If the current value is within the bounds, then the data source is healthy. If the current value is outside the bounds, then the source is tagged as "unhealthy" and a notification is sent to the administrators. This procedure of imposing hard coded alarm limits has to be carefully considered, as false notifications could get unruly. There are also missing triggers, when a data point is problematic but not above a threshold. The first problem not only wastes time and effort but also availability of resources. The second is more crucial as it could lead to injection of "bad" data into a system with the associated cost and lost productivity. Both problems result from the same cause: The health of a complex solution cannot be reliably judged based on the analysis of each measurement on its own. We must rather consider a combination of the various measurements to get a true indication of the overall picture of a data source's health.	Sept 2015	Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate how they have developed high level briefings to include charts, graphs, recommendations, outcomes, and risks related to potential schemes, current schemes, and risks to identifying those schemes.	Our expert designers help turn technical and policy content into persuasive, clear and engaging presentations, in line with the client's creative brief, the mission of the agency, or the goals of a project. BT provides a range of PowerPoint presentation design services to suit agency needs from ideation to post-production. We specialize in "main stage" keynote presentations that capture the big picture so it can be articulated in a way that conveys the right message to the audience. BT has extensive experience in corporate communications, briefing development and in the presentation of complex data and ideas to varying audiences. At DOL, we provided the writers, graphic artists, and AV personnel to support CIO and other C-level executives in decision making.	Sept 2011	U.S. Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Departmental Budget Center (DBC), Departmental E-Budget Suite (DEBS)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate how they have developed high level briefings to include charts, graphs, recommendations, outcomes, and risks related to potential schemes, current schemes, and risks to identifying those schemes.	As the primary consultants at Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Bridging Technologies provided the graphic design, content development, and subject matter experts to develop high level briefings. Our graphics department crafted charts, diagrams and info graphics to help convey complex messages, and make sometimes-technically challenge subjects understandable to a wide audience.	Sept 2015	Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall monitor existing Issue Recommender pilots, including identifying suitable control groups, performing comparative analysis of pilot results using both classical and Bayesian statistical methods, and identifying potential data discrepancies and working with stakeholders to resolve such discrepancies.	BT recognizes that finding the outliers, anomalies, and errors in data sets can vastly improve both static data assessments and predictive modeling. Therefore, finding the best model to analyze with can help to uncover more accurate results. BT consultants have utilized different methods to survival analysis that assess one or more factors; classic Kaplan-Meier method, Cox regression, parametric models, and newer models such as Bayesian. Cox regression is common and is generally used for time-dependent data, and the main difference between Cox regression and Bayesian models is that the prior distribution in Bayesian models can affect the values of the parameters. Some analysis models have certain conditions that need to be considered before analyzing the data. In our experience, Bayesian models are more accurate to determine data error rates, and assess risk factors when dealing with multiple dispirited data sources.	Sept 2011	U.S. Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Departmental Budget Center (DBC), Departmental E-Budget Suite (DEBS)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall provide analytics software and hardware tools previously used, including but not limited to machine learning, modeling, and RPA, to automate and enhance manual processes and activities in existing business program areas.	Bridging Technologies has made hardware and software recommendations to decision makers at various agencies over the past few decades. We are trusted to provide expert advice to help enhance existing business program areas, devise sunseting processes for legacy systems, and lay out roadmaps for agencies to leverage new technologies and techniques.	Sept 2015	Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD

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Contractor shall demonstrate the ability to build blended data sets using internal and external data in a government data environment.	Bridging Technologies as extensive experience with designing and implementing data warehouses as a means of leveraging blended data set and incorporating external data. Data blending is a process whereby big data from multiple sources are merged into a single data warehouse or data set — and the data warehouse approach has proven to be a versatile approach. This also enables Bridging Technologies to use our expertise in Crystal Reports and other tools to address complex querying, build executive information systems and dashboards, and ensure the true value of data can be found, revealing patterns. Our approach is based on understand primary and secondary data sources. We then work across blended data sources, having defined the blend relationships before establishing the needed links. This is often accomplished via an enterprise service bus, with translation service accessing the various data sources via APIs.	Sept 2011	U.S. Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Departmental Budget Center (DBC), Departmental E-Budget Suite (DEBS)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate the ability to incorporate advanced data analytics into existing business processes and legacy information technology.	Using a service oriented architecture, Bridging Technologies incorporates new micro-services, such as API interfaces to A.I. processing tools, into legacy applications. BT is able to meet the challenge of integrating an organization's legacy infrastructure with "Big Data." Legacy systems contain significant and invaluable business logic. These valuable assets of encoded "business logic" represent many years of coding, development, real-life experiences, enhancements, modifications, debugging etc. Most of the legacy systems were developed without the process models or data models - now needed to support and integrate Big Data. To integrate Big Data into legacy system, modernization of legacy system is required. There are many approaches for modernization of legacy systems but none of them are focused on integrating Big Data into legacy systems. Legacy systems hold valuable data too important to be lost in the process of modernization.	Sept 2015	Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD
Contractor shall demonstrate the ability to train IRS staff to run and maintain new code and/or algorithms in existing IRS computing environments.	Bridging Technologies supported improving DEBS through conceptual analysis, requirements analysis, design assessment, deployment, data modeling, process modeling, screen mockups, testing and implementation, and documentation of the software applications/modules. Creating new sub-systems such as a Congressional tracking system, and numerous other systems that would continue DEBS' move to budget automation. System Integration: Bridging Technologies automated previously manually entered systems on both the agency and legislative sides of the budgeting process, significantly reducing error and streamlining reporting. These changes allow the client to track and re-allocate funds in real time. Systems included personnel and compensation projections; legislative funding recommendations; and Office of Management and Budget schedules. System Administration: Bridging Technologies provided on-site support of the DEBS program, requiring synchronization of the DEBS environments to be consistent across all platforms. This included documentum doctype, SQL server database, DEBS application, DBLoader application, Job Manager application, BPI application, and IBM Cognos reporting engines. Our team incorporated into the synchronization process a method by scrambling data to be inconsistent with live production data (random additional values). Using "best practices" system administration across all of the DEBS environments to include, but not limited to: production, staging, test, development, training, and quality assurance. Configuration Management: Bridging Technologies revamped the existing configuration management policy developed for the DEBS program, to include implementing a data management strategy that addresses archiving, backing up/ restore and continuity of operations (COOP) requirements. Bridging Technologies personnel provided the Department of Labor with helpdesk support, system maintenance, and system development for DEBS. Our specialists were highly professional and skilled in analyzing customer inquiries to determine if issues are user based or system based, guiding users through system features, and solving technical issues. Bridging Technologies also provides user training for each budgeting submission as well as training on select topics to help the user gain optimal use of the system.	Sept 2011	U.S. Department of Labor (DOL), Office of the Assistant Secretary for Administration and Management (OASAM), Departmental Budget Center (DBC), Departmental E-Budget Suite (DEBS)	Small	Woman-owned (8m), HUBZone certified small business	Bridging Technologies LLC	300 New Jersey Avenue NW, Suite 900 Washington, DC 20001	961969677	TBD