

**Cage Code**  
6NLUO

**Clearance**  
Top Secret

**SAM UEI**  
EPE8N2747L14

### Contract Vehicles

- GSA 8(a) STARS III
- GSA IT 70 MAS
- GSA PSS MAS
- DoN - SEAPORT NXG
- NAVWAR - IWRP OTA
- JAIC DRAID BOA

### Certifications

- EDWOSB
- SBA 8(a) Certified
- HUBZone Certified
- CMMI SVC L3
- ISO 9001: 2015
- ISO 20000-1: 2018
- ISO 27001: 2013
- V3 Certified

### Clients

- DoS
- NSF
- DoED
- DoL
- CFPB
- USAID
- DHS
- USACE
- DoN
- FDIC

## Who We Are

Trewon Technologies, LLC is an SBA certified 8(a) and HUBZone, and economically disadvantaged woman-owned small business (EDWOSB) who specializes in providing information technology (IT) solution strategy and execution, as well as expert research and evaluation (R&E) services, to Federal Government clients.

Founded in 2010, we are uniquely positioned to address complex IT problems through innovative approaches that integrate automation into the mission and business of Government.

## Services and Solutions

### Support of the Division of the National Center for Science and Engineering Statistics (NCSES), National Science Foundation (NSF):

Trewon is assisting the National Science Foundation (NSF) and NCSES by developing procedures to facilitate systematic decision-making related to the management, sharing, and publication of NCSES data. Trewon is providing NCSES with expert consultancy to meet the expectations of the Foundations for Evidence-Based Policy Making Act (Evidence Act) and best practices as defined by the Federal Data Strategy. We are developing data management plans for NCSES Surveys, including Survey of Earned Doctorates, Survey of Graduate Students and Postdoctorates in Science and Engineering, and the National Survey of College Graduates.

### Learning Agenda and Evaluation Support Services for NSF's Office of International Science and Engineering (OISE):

Trewon is providing evaluation services to OISE to support the development of a learning agenda, build evidence for strategic decision making, and expand their capacity for program evaluation. We are designing and implementing a series of developmental pilot studies to address OISE's priority questions and learning needs to strengthen OISE's evaluative thinking and enhance their ability to incorporate evaluative questioning into routine decision making. We support the design of practical measurement systems that define and assess what is being accomplished through OISE.

### Evaluation and Research Services BPA, Consumer Financial Protection Bureau:

Trewon is one of the vendors selected to provide evaluation and research support to the Office of Strategy at the Consumer Financial Protection Bureau (CFPB) with the end goal of establishing an Evaluation Agenda and an Evaluation Policy for the Bureau. Activities under this BPA include the development, collection, analysis, and dissemination of research and evaluation studies.

### Workshop Support for NSF's Established Program to Stimulate Competitive Research (EPSCoR):

Trewon is providing NSF with support, facilitation, and analytic services to conduct data collection activities with EPSCoR stakeholders and facilitate a series of workshops aimed at developing recommendations based on stakeholder input. This work includes developing a public website with document library and facilitating stakeholder listening sessions and public comment request.

### Department of Labor, Strengthening Community Colleges Study

Trewon Technologies supports the Department of Labor, Chief Evaluation Office by providing evaluation technical assistance of the Strengthening Community Colleges Training Grants (SCC) Study which focuses on increasing the capacity of community colleges to collaborate with employers and workforce development system to fulfil local and regional labor market demands for a skilled workforce. Trewon collaborates closely with award grantees and their evaluators by providing evaluation, data analysis, metadata management and data synthesis support.

# Trewon Team Experience: Research and Evaluation



## **Department of Homeland Security, Support of the ORA**

As a subcontractor to Applied Research Associates (ARA), Trewon supports the Department of Homeland Security's Science and Technology Division with the Operations and Requirements Analysis (ORA) Division's Evidence Act efforts. Trewon provides support to the ORA division with establishing a data collection plan, updating their logic model, drafting a stakeholder engagement plan, developing a dissemination plan for the study's findings, and supporting staff in drafting a successful study plan. Trewon additionally provides program and evaluation subject matter expertise that supports the ORA's response to their Learning Agenda Annual Evaluation Plan

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## **Title II of the Higher Education Act, Teacher Preparation Program Data Collection**

Trewon is supporting ED's Title II data collection, which provides critical measures of teacher preparation programs and insight into the K-12 teacher pipeline for policymakers and educators at all levels. As part of this project, the Trewon team will provide outreach, training, and support to states and teacher prep providers to ensure quality throughout the data collection process. This includes developing tip sheets and videos, hosting conferences, and operating a help desk. The Trewon team will also maintain and operate a fully operational data collection system and public website to support the two annual data collection cycles and conduct automated data accuracy verification and quality control.

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## **Budget and Financial Management Support, National Science Foundation:**

Trewon is supporting the Division of Financial Management by providing finance, budget, accounting, audit, and information technology solutions for NSF's existing financial system functionality and reporting. The Division of Financial Management (DFM) is responsible for the financial policy and financial management of NSF. The division is responsible for NSF's financial reporting, grantee business office relationships, payment of vendors and staff reimbursement for travel expenses. The goal of DFM is to provide accurate, courteous, and efficient financial service to NSF and NSF clients.

## **Trewon Team Experience: Research and Evaluation Continued**



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### **Evaluation Support for the NSF INCLUDES Initiative:**

Trewon provided analytic and evaluative support services to the Directorate for Education and Human Resources (EHR) for the NSF INCLUDES initiative, which seeks to broaden the participation of women and minorities in STEM from pre-K through the workforce. We addressed EHR's evidence-building and evaluation needs by extending past work to elicit systematic answers to questions regarding activities and outcomes of NSF INCLUDES projects.

## **Trewon Team Experience: Information Technology**



### **Bureau of Comptroller and Global Financial Services (CGFS), Department of State (DoS):**

Trewon oversaw the initiation, conceptualization, planning, and end-to-end implementation of the global delivery of virtual applications. Delivered the data warehouse applications, including hardware, software, architecture design, and end-to-end PoC of data warehouse applications. Utilize machine learning to find patterns and develop and identify deficiencies in data generation and retrieval efforts inherent in data collection for. Changing or adding new table attributes, creating interactive dashboards, and schemas. Supported the global roll out of data analytics application to overseas bureaus including remote and external users with poor networks.

### **Bureau of Overseas Building Operations (OBO), Department of State (DoS):**

Trewon is a liaison between OBO travelers and the State Department travel agent, ensuring airline travel and ticketing returns comply with Federal travel regulations, State Department, and OBO policies. Provide management, transactional, helpdesk, and analytical services. Provide a full range of budget formulation and execution, accounts payable, financial management reporting and analysis, financial systems analysis, developing and implementing travel and travel related systems in support of DoS.

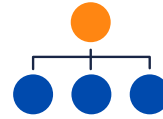
### **Bureau of Information Resource Management (IRM), Department of State (DoS):**

Trewon integrated the Information Systems Security Officer (ISSO) dynamic dashboard product into a Splunk Enterprise Environment, creating intuitive interactive dashboards, giving end-users the ability to monitor systems with ease of access to information. Draft and disseminate analytics results via dynamic dashboards for audiences. Create data inventories, deliver data files, and prepare codebooks and data dictionaries. Analyze unstructured / structured data to find patterns. Run troubleshooting to provide scaling guidance, collected OpenNet data, managed and filtered logs, provide alerts and reports, analyze and run data reports. Use of machine learning for predictions and decision making.

### **The Department of Navy, NAVWAR, Department of Defense (DoD):**

Data Warehouse Business Intelligence System (DWBIS) is used to combine information from several different sources to help Command prioritize staffing plans and assignments of 10,000 employees. Trewon complied with Department of Defense policy for DoD applications to be authenticated via DoD issued Common Access Card (CAC) – Public Key Infrastructure (PKI), ensuring data analytics applications adhere to DoD's mandate. Trewon designed, deployed, installed, configured, and tested, operations and maintenance. DWBIS also manages available funds for Defense Acquisition Workforce and Cyber Security Workforce.

## Trewon Leadership



### Trewon Team IT Partners:

SAP, Microsoft Azure, Amazon AWS, Citrix, Cloudera Connect, Oracle, Splunk, Tableau, Data Robot

#### Dr. Bijal Sanghani Shah, Ph.D., CEO:

Dr. Shah is an evaluation specialist with 10 years of experience in evaluation strategies including developmental, implementation, and impact studies. She has managed various large-scale projects funded by local and federal governments, requiring considerable knowledge about strategies for building evidence, designing quality studies and broad evaluation methodologies.

Her expertise includes quantitative data collections and analysis, instrument development, data management, analytic methods, and meta-analytic review. She has designed databases, managed data analysis and reporting for the NSF-funded Tribal Colleges and Universities Program (TCUP) project, which supports participation and retention of American Indian, Alaska Native, and Native Hawaiian students in STEM. Dr. Shah has a post-graduate certificate in dietetics and applied nutrition and holds a Ph.D. in nutritional sciences from the University of Texas at Austin.

#### Saumil Shah, M.S., President:

Mr. Shah serves as technical liaison for the company's Information Technology business line, keeping the company on target with the latest advances in technology. He brings over a decade of experience working with government agencies and corporations to address their technological needs. As an Information Technology professional with SAP Business Objects (BO) subject matter expertise, he brings a robust background in database architecture.

He is an authority in BO Customization and provides custom applications using BO Software Development Kits (SDKs). As a seasoned Data Warehouse professional, he brings experience using multiple Business Information tools to the handling and storage of big data. He is certified in building and using backend databases and is an expert in relational databases.

#### Dr. David Dreisigmeyer, Ph.D., Federal Data Strategist Subject Matter Expert:

Dr. Dreisigmeyer has a strong combination of a computational background and policy work. He also has experience in the direct involvement with the entire pipeline of writing Federal-wide guidance and implementing his guidance at the departmental and bureau levels. This has given him a complete picture of data: not only how to use it, but a full understanding of how to view and think about those uses. As an expert in developing and implementing workforce data skills needs and capacity assessments across large organizations, Dr. Dreisigmeyer has proven ability to lead comprehensive data inventory efforts across heterogeneous agencies, program and project management skills, experience with developing Federal-wide connections and data strategy efforts, and extensive data mining and machine learning experience.

#### Dr. Aubrey Comperatore, Senior Research Analyst

Dr. Aubrey Comperatore, is a Senior Research Analyst for Trewon Technologies specializing in evaluation and research activities. Dr. Comperatore has extensive experience as an evaluation specialist focusing on mixed methods and qualitative approaches embedded across evaluation strategies and frameworks, including outcome and impact evaluations, collaborative evaluations, and culturally responsive evaluations. She works especially with systemic, organizational, and programmatic initiatives aimed at proving and improving the outcomes and impacts for stakeholders across educational, academic, social, and non-profit settings. Prior to Trewon Technologies, Dr. Comperatore served as the Research & Learning Manager for Habitat for Humanity International wherein she worked with internal and external stakeholders to create, design, and execute the organization's US Research & Learning Agenda. With the Education Policy Initiative at Carolina (EPIC) at the University of North Carolina at Chapel Hill, she worked with clients, such as the Bill & Melinda Gates Foundation, North Carolina Department of Public Instruction, and USPREP, to build stakeholders' capacity to design and effectively assess the impact of their organizational goals, grantee portfolios, programs, and interventions, including facilitating learning agenda creation, logic modeling, conceptual framework development, implementation evaluations, evidence mapping, and short-term and longitudinal outcome and impact evaluations. Dr. Comperatore holds an M.A. and a Ph.D. in Education from UNC-Chapel Hill with research interests in literacy, education policy, teacher preparation, and educational equity.