The Small Business Innovation Research (SBIR) Program, Agile Contracting Solution, and FTI's Decisions Analysis Technologies

About Us:

- For over 30 years, FTI has been helping the DoD and other government agencies improve mission outcomes, solve hard problems, implement informed and wise decisions
- Employee-owned small business
- HQ in Dayton, Ohio; operating across the U.S.
- FTI is anchored by the 4 Cs: Core Values, Commitment, Compassion & Charity
- FTI has numerous SBIR Phase III contracts
- FTI has over 160 SBIR Phase I & II contracts

FTI's Decision Analysis Capabilities Support a Broad Scope of Work

Acquisition Management	Engineering	Prognostic Health Management
Affordability Analysis	Fleet Energy Optimization	Program Management
Business Case Analysis	Logistics Support/Analysis	Sensor Calibration
Cost Analysis	Maintenance	Space Asset Modeling & Simulation
Course of Action Analysis	Metric Processing	Studies & Analysis
Cyber & Information Technology	Modeling & Simulation	Test & Evaluation
Data Exploitation & Fusion	Pattern Recognition	Training & Training Systems
Data Processing	Product Lifecycle Management	Wargaming

The Small Business Innovation Research Program

Phase I: Determines the scientific & technical merit and feasibility of a proposed effort

Phase II: Typically a demonstration phase in which prototypes are built and tested

Phase III: Work that derives from, extends, or completes a SBIR Phase I or II effort

Features	Benefits
No Small Business (SB) prime 51% workshare requirements	Allows the contractor support team to be optimized
Broad Scope encompasses Products, Production, Services, Research, Research & Development, Studies & Analysis	Provides a wide range of solutions for the life cycle of programs, systems, or operational requirements
Services and materials can be acquired on same contract	All of a customer's needs can be met seamlessly
Any teammates - Large and Small businesses, Universities and Federally Funded Research and Development Centers	Unfettered access to thought leaders and best of breed subject matter experts with the right experience
All types of federal funds can be used (except SBIR funds)	Flexible funding including Foreign Military Sales (FMS)
Any federal agency can issue a SBIR Phase III contract	The ability to bring solutions to any federal agency
All contracting options are possible: Cost Plus, Time and Materials, Firm Fixed Price, etc.	Virtually any type of requirement can be supported with the optimal contracting solution for each effort
Full and Open Phase III with prime meeting SB NAICS code	Allows contracting agency to get Small Business credit
Any security level can be supported	Allows the right people to work in the right locations
SBIR Phase I and II competitive awards satisfy competition requirements for SBIR Phase III contract awards	Competition credit is given for Sole Source SBIR Phase III awards to the contracting organization

Frontier Technology Inc. (FTI)

Making the World More Informed, Productive and Secure

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FTI's SBIR Based Decision Analysis Technologies

MPAE – METRIC PROGRESS ANALYSIS ENGINE	**Metric Progress Analysis Engine (MPAE)** identifies performance metrics and tracks trends and related changes associated with systems and programs. The MPAE tool provides the capability to understand trends, identify relationships, and displays cost, maintenance, and readiness data in one application.
RAE	**Readiness Assessment Engine (RAE)** applies an efficient, cost-effective beginning-to-end process to plan, perform, and document multiple readiness assessment types to determine how mature a program is at various stages of development.
FRONTIER TECHNOLOGY, INC. I-CAIV JDAPS for Cost As An Independent Variable	**Integrated Cost As an Independent Variable® (I-CAIV®)** prioritizes readiness initiatives and accomplishes performance vs cost tradeoffs to help make informed decisions. I-CAIV® provides the ability to quantify, assess, and compare the merits of various alternatives (architectures, systems, courses of action, etc.) in multiple, user-defined dimensions such as utility, performance, cost, risk, and schedule impact.
ICE™	**Integrated Cost Estimation® (ICE)** estimates return on investment of future systems, modifications, enhancements, and the cost difference between alternatives. ICE enables program managers, engineers, and researchers to develop life cycle cost estimates in a short amount of time using the community-accepted cost models, tools, and data without having to learn the details of complex cost estimating models or tools.
LOOM	**Linking Outputs to Outcomes Model (LOOM)** provides full-cycle assessment, planning, monitoring and evaluation, using existing assessment and planning processes. LOOM uses a visual canvas to map the linkages between outputs (activities), intermediate outcomes, and high-level goals (effects). LOOM uses assumptions related to planned activities to logically map the transition between the current situation and desired effects.
Frontier Technology Inc ISWAT	**Integrated Sustainment and Wargaming Analysis Toolkit (ISWAT)** is designed to provide quantification of sustainment processes and resources for current and future weapon systems to support logistics supportability. ISWAT can be used to find the limiting factors associated with logistics for war plans and other courses of action.
LCOM ATK	**Logistics Composite Model Analysis Toolkit (LCOM ATK)** investigates reliability, maintainability, availability, and logistics suitability factors to support planning and trade studies. It can be used to determine the amount of manpower required for an operation.
ELAPS®	**Extensible Load Adaptive Processing System (ELAPS®)** increases the efficiency of high-volume data processing. The automated data processing enacted of the ELAPS software can dramatically reduce the time required to process and analyze very large amounts of data.
NormNet®	**NormNet® Prognostic Health Management (PHM)** technology helps alert users to future failures in complex systems before an actual service interruption occurs. It does not require changes to your sensors, data sources or operational procedures. This tool uses data that is collected to predict system abnormal behaviors and future problems by identifying small variances from predicted normal behavior.

For more information on SBIR Phase III contracting go to: sbtc.org/resources

- US Navy SBIR/STTR Phase III Guidebook
- USAF SBIR/STTR Phase III Desk Reference
- Army SBIR Phase III Guidebook
- NASA SBIR/STTR Phase III Contracting Handbook
- NOAA SBIR Phase III Contracting Guidelines

To do business with FTI call, email or visit our website

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