DEPARTMENT OF THE AIR FORCE (AF) SMALL BUSINESS TECHNOLOGY TRANSFER (STTR) PROGRAM X21.B COMMERCIAL SOLUTIONS OPENING (CSO)

Applies to AFWERX Phase I Topic AF21B-TCSO1 ONLY.

21 April 2021: Solicitation goes into pre-release
19 May 2021: Begin accepting proposals
17 June 2021: Full proposals due no later than 12:00 p.m. Eastern Time

IAW with Section 879 of the National Defense Authorization Act (NDAA) for Fiscal Year 2017 (P.L. 114-328), Congress has authorized the Defense CSO Pilot Program. This program allows agencies to obtain solutions or potential new capabilities fulfilling requirements, closing capability gaps, or providing potential technological advancements. Consistent with FY17 NDAA Section 879, AF is soliciting proposals under a CSO. This solicitation is intended for informational purposes and reflects current planning. If there is inconsistency between the information in the CSO and resulting awards, if any, the awards' terms and conditions take precedent.

IMPORTANT

Deadline for Receipt: No exceptions will be made for the submission deadline above. AF recommends early submission, as computer traffic gets heavy near announcement closing. **Do not wait until the last minute**. **AF is not responsible for missed proposal submission due to servers being "down" or inaccessible**.

How to Submit: All proposals must be prepared and submitted through the Department of Defense (DOD) SBIR/STTR Innovation Portal (DSIP), <u>https://www.dodsbirsttr.mil/</u>. Ensure the proposal email address is accurate. AF is not responsible for missed notifications due to firms changing mailing address/email address/ company points of contact after submission without notifying the AF. <u>Classified proposals are NOT accepted</u>.

<u>CSO Changes</u>: The instructions/topic information are revised – read carefully.

SBIR/STTR Updates and Notices:

- The CSO of record is found at <u>https://www.dodsbirsttr.mil/submissions/login</u>. <u>Proposals must meet all</u> <u>CSO of record requirements at proposal submission deadline</u>.
- To receive AF Ventures and other AF innovation opportunity notifications, register at <u>https://af-ventures.com/</u> and <u>https://www.afwerx.af.mil/join.html</u>.

Help Desk: For AF SBIR/STTR Program questions, contact the AF Help Desk at 1-855-855-5360 or usaf.team@afsbirsttr.us. Requests for support with using the Defense SBIR/STTR Innovation Portal (DSIP) can be directed to the DSIP Help Desk by email at DoDSBIRSupport@reisystems.com. Support requests can be submitted at any time and will be addressed in the order received during normal operating hours of Monday through Friday, 9:00 a.m. to 5:00 p.m. ET.

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Attachments

- 1. AF X21.B STTR CSO Sample Pitch Deck (can be accessed at: https://rt.cto.mil/rtl-small-business-resources/sbir-sttr/)
- 2. Contractor Certification Regarding Prohibited Video Surveillance and Telecommunications Services and Equipment (REQUIRED)
- 3. Foreign Ownership or Control Disclosure (REQUIRED, if applicable)

1.0 INTRODUCTION

The Air Force (AF) invites small business firms to submit proposals under this CSO for the Small Business Technology Transfer (STTR) Program. Firms with the capability to conduct research and development (R&D) in the AF-related topics described in Section 10.0 and to commercialize the results are encouraged to participate.

The 2014 Quadrennial Defense Review (QDR) established innovation as a central line of effort in the United States' (US') national defense strategy. The US' decisive military advantage over its adversaries and peer competitors is steadily eroding. Consequently, under section 879 of the National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2017 (Pub. L. 114-328) contracting officers may acquire innovative commercial items, technologies, or services using a competitive procedure called a Commercial Solutions Opening (CSO). Under the CSO, DoD may competitively select proposals received in response to a general solicitation, similar to a Broad Agency Announcement, based on proposal review by Government scientific, technological, or other subject-matter experts. CSO use in accordance with Class Deviation 2018-O0016 is considered competitive for the purposes of 10 U.S.C. chapter 127 and FAR 6.102. Contracting officers shall treat items, i.e., products and services acquired under a CSO as commercial items. The full definition of commercial items, i.e., products and services, under FAR 2.101 applies. This CSO includes no requirement for a commercial product or service be an already developed, off-the-shelf item.

This CSO seeks innovative, commercial technologies proposed to create new AF solutions or potential new capabilities fulfilling requirements, closing capability gaps, or providing potential technological advancements. The AF reserves the right to award all, part, or none of the proposals received. The Federal Government is not responsible for any monies expended by the applicant before award, if selected.

AF will not issue a separate CSO for Phase II proposals. All firms awarded Phase I awards under this CSO will be eligible to participate in Phases II competitions with potential for Phase III awards. AF will provide Phase I awardees the Phase II proposal submission requirements. Submission of Phase II proposals will be in accordance with instructions provided by AF. Phase II details regarding due date, content, and submission requirements will be provided by subsequent notification. If a firm submits a Phase II proposal prior to receiving the Phase II instructions, it will be rejected without evaluation. The SBIR/STTR Programs are not substitutes for existing unsolicited proposal mechanisms. Unsolicited proposals are not accepted under the AF SBIR/STTR Programs for Phase II.

AF is not obligated to make any awards under Phases I, II, or III, and all awards are subject to the funds availability and programmatic need. AF is not responsible for any monies expended by the proposer before the issuance of any award.

General information related to the AF Small Business Program is found at <u>http://www.airforcesmallbiz.af.mil/</u>. The site contains contracting opportunities within AF, as well as business information and upcoming outreach/conference events. Other informative sites include the Small Business Administration (SBA), <u>www.sba.gov</u>, and Procurement Technical Assistance Centers, <u>http://www.aptacus.us.org</u>. These centers provide Government contracting assistance and guidance to small businesses, typically at no cost.

AF Topic Information

AF SBIR/STTR Center for Excellence solicits Phase I (SBIR/STTR) and Direct to Phase II (SBIR only) in order to accelerate technologies to the warfighter. These topics are different in several ways from the standard AF SBIR/STTR proposal, award, and execution processes. These topics include shortened technical durations, reduced reporting requirements, and varying award amounts compared to normal traditional STTR topics.

Topic AF21B-TCSO1: Sponsored by the Air Force Office of Scientific Research (AFOSR) in partnership with AFWERX, <u>http://www.afwerx.af.mil</u> a catalyst for agile Air Force engagement across industry, academia, and non-traditional contributors, creating transformative opportunities and fostering an AF culture of innovation.

- Phase I proposals shall include technical information not to exceed 25 slides, uploaded in Volume
 The 25-slide technical volume will be reviewed holistically. Offerors may also include an optional five-page white paper, if needed, to provide additional information regarding the proposed effort not covered in the technical volume. More information follows under Supporting Documents.
- 2. The cost volume, Volume 3, will cover the total effort broken down into specified technical and reporting periods. See below chart. Topics under this CSO shall follow the "Phase I Work Plan Outline" as stated below, except one Progress Report is required and no technical review requirement due to the short duration. Phase I final reports will be a SF298, Report Documentation Page, presentation in accordance with the purchase order.

	Phase I				Traditional Phase II				
Applicable Topics	Technical Volume (Vol 2)	Add'l Info (Vol 5)	Award Amount	Tech Duration	Final Report Period	Tech Volume (Vol 2)	Add'l Info (Vol 5)	Technical & Reporting	Initial Award Amt
AF21B TCSO1	Slide deck NTE 25 charts (optional template provided)	Optional white paper NTE five pages	NTE \$50,000	2 months	1 month	Slide deck NTE 25 charts (optional template provided)	Optional white paper NTE five pages	15 months, including 12 months technical performance and three months for reporting.	NTE \$750,000

2.0 PROGRAM DESCRIPTION

2.1 Objectives. The DoD STTR Program objectives include stimulating technological innovation, strengthening small businesses' role in meeting DoD R&D needs, fostering and encouraging minority and disadvantaged persons' participation in technological innovation, and increasing commercial application of DoD-supported R/R&D results.

AF invites small business firms and research institutions to jointly submit proposals under this STTR CSO. Firms with the capability to conduct research or research and development (R/R&D) and quickly commercialize the proposed results are encouraged to participate.

The STTR Program, although modeled substantially on the Small Business Innovation Research (SBIR) Program, is a separately managed and financed program. Subject to funds availability, AF seeks high quality R/R&D proposals for innovative concepts to solve defense-related scientific or engineering problems, especially those concepts with high potential for private sector commercialization. Partnerships between small businesses and Historically Black Colleges and Universities (HBCUs) or Minority Institutions (MIs) are encouraged, although no special award preference will be given.

The USAF S&T Strategy identifies five (5) Strategic Capabilities, listed below. The offeror should address the solution's connection to at least one of them.

- 1. Global Persistent Awareness
- 2. Resilient Information Sharing
- 3. Rapid, Effective Decision-Making
- 4. Complexity, Unpredictability, and Mass
- 5. Speed and Reach of Disruption and Lethality
- 6. BLUE SKY*

US Air Force S&T Strategy:

https://www.af.mil/Portals/1/documents/2019%20SAF%20story%20attachments/Air%20Force%20Science%20an d%20Technology%20Strategy.pdf?ver=2019-04-17-131216-723×tamp=1555530064092

*NOTE: While the S&T strategy document contains only five capabilities, it is possible for a solution to provide a strategic capability in a previously unconsidered area. Therefore, if the offeror feels their solution does not fit within one of the listed capabilities, reference the "BLUE SKY" strategic capability, including an explanation of the solution's ability to provide increased strategic capability within the context of USAF, national, and global constraints.

The Air Force process is unique as it is incumbent on small business founders to identify and understand their Government customers and their mission needs. Some methods for exploring Defense needs and opportunities are available below:

- a) Air Force Focus Areas List Focus Areas are collected from across the Air Force and maintained at <u>https://www.afwerx.af.mil/afventures.html</u>. If applicable, please reference relevant Focus Area ID number(s) in the Technical Volume's header. Referenced Focus Areas will not be used during peer review.
- b) Air Force Tech Connect https://airforcetechconnect.org/
- c) Small Business Specialist https://www.airforcesmallbiz.af.mil/Small-Business/Locate-Specialist/
- d) **Procurement Technical Assistance Centers (PTACs)** <u>https://www.sba.gov/local-assistance/find/?type=Procurement%20Technical%20Assistance%20Center</u>
- e) AFRL/RG Challenges https://afwerxchallenge.com/
- f) Defense Innovation Marketplace https://Defenseinnovationmarketplace.dtic.mil

The AF SBIR Program follows the policies and practices of the Small Business Administration (SBA) SBIR/STTR Policy Directive (1 Oct 2020), found at

https://www.sbir.gov/sites/default/files/SBA_SBIR_STTR_POLICY_DIRECTIVE_OCT_2020_0.pdf

This CSO incorporates and makes use of Policy Directive flexibilities to encourage proposals based on scientific and technical approaches most likely to yield important results for the AF and private sector.

a. Technology and Program Protection to Maintain Technological Advantage

In accordance with DoD Instruction 5000.83, Technology and Program Protection to Maintain Technological Advantage, dated July 20, 2020, and as a means to counter the threat from strategic competitor nations, the DoD will employ risk-based measures to protect systems and technologies from adversarial exploitation and compromise of U.S. military vulnerabilities and weaknesses in: (1) systems, (2) components, (3) software, (4) hardware, and (5) supply chains. The initial measure being implemented for the STTR Program is to require proposers to self-report and disclose foreign ownership of, or control over, the proposer. Reporting and disclosing such information will enable the DoD to identify national security risks posed by foreign participation, through investment, ownership, or influence, in the Defense industrial base. This information will be used by DoD program offices to determine risks posed by STTR contract awardees and their subcontractors to the DoD and the Defense industrial base.

b. Three Phase Program

STTR is a three-phase program. Phase I objective is to determine, to the extent possible, selected proposals' scientific, technical, and commercial merit and feasibility. Proposals should concentrate on R/R&D significantly proving the proposed effort's scientific and technical feasibility and commercialization potential. Successful Phase I completion is a prerequisite to be considered for Phase II award. Proposers should consider whether the proposed R/R&D also has private sector potential or can be used as a base for other applications.

Phase II awards are selected based on Phase I results and/or the Phase II proposal's scientific and technical merit and commercialization potential. Phase II, as the principal R/R&D effort, is expected to produce a well-defined, deliverable prototype. Phase II awardees may receive a second, sequential Phase II award to continue the project's work.

Phase III awards require funding from the private sector, non-SBIR/STTR Governmental sources, or both. The objective is to develop the prototype into a viable product or non-R&D service for military or private sector market sales. Phase III awards must be based on work deriving from, extending, or completing an effort made under prior SBIR/STTR funding agreements, but funded as previously discussed. Phase III work is typically oriented toward technology commercialization.

3.0 DEFINITIONS

The following definitions from the SBA SBIR/STTR Policy Directive, the Federal Acquisition Regulation (FAR), and 10 USC 2371b apply to this CSO:

3.1 Certified HUBZone Small Business Concern: An SBC certified by SBA under the Historically Underutilized Business Zones (HUBZone) Program (13 C.F.R. § 126) as a HUBZone firm listed in the Dynamic Small Business Search (DSBS).

3.2 Commercial Solutions Opening (CSO): A competitive procedure contracting officers may use to acquire innovative commercial items, technologies or services.

3.3 Commercialization: The process of developing products, processes, technologies, or services and the production and delivery (whether by the originating party or others) of products, processes, technologies, or services forsale to or use by the Federal Government or commercial markets.

3.4 Essentially Equivalent Work: Work substantially the same research, proposed for funding in more than one application submitted to the same Federal agency, or two or more different Federal agencies for review and funding consideration. It may also include work where a specific research objective and the research design for accomplishing project objective are the same or closely related to another proposal or award, regardless of funding source.

3.5 Export Control: The International Traffic in Arms Regulations (ITAR), 22 CFR Parts 120 through projects with military or dual-use applications beyond fundamental research. Fundamental research is basic and applied research ordinarily published and shared broadly within the scientific community. More information is available at https://www.pmddtc.state.gov/?id=ddtc public portal itar landing.

3.6 Federal Laboratory: As defined in 15 U.S.C. §3703, means any laboratory, any Federally funded research and development center (FFRDC), or any center established under 15 U.S.C. §§ 3705 & 3707 that is owned, leased, or otherwise used by a Federal agency and funded by the Federal Government, whether operated by the Government or by a contractor. Note – many Federal Laboratories DO NOT qualify as research institutions for the purposes of the STTR Program. Please ensure the entity to which the small business intends to subcontract as the research institution meets the definition in 3.15 below.

3.7 Foreign Entity

Foreign entity means any branch, partnership, group or sub-group, association, estate, trust, corporation or division of a corporation, non-profit, academic institution, research center, or organization established, directed, or controlled by foreign owners, foreign investors, foreign management, or a foreign Government.

3.8 Foreign Government

Foreign Government means any Government or Governmental body, organization, or instrumentality, including Government owned-corporations, other than the United States Government or United States state, territorial, tribal, or jurisdictional Governments or Governmental bodies. The term includes, but is not limited to, non-United States national and subnational Governments, including their respective departments, agencies, and instrumentalities.

3.9 Foreign Nationals: Foreign Nationals (also known as Foreign Persons) as defined by 22 CFR 120.16 means any natural person who is not a lawful permanent resident as defined by 8 U.S.C. § 1101(a)(20) or who is not a protected individual as defined by 8 U.S.C. § 1324b(a)(3). It also means any foreign corporation, business association, partnership, trust, society or any other entity or group that is not incorporated or organized to do business in the United States, as well as international organizations, foreign Governments and any agency or subdivision of foreign Governments (e.g., diplomatic missions).

"Lawfully admitted for permanent residence" means the status of having been lawfully accorded the privilege of residing permanently in the United States as an immigrant in accordance with the immigration laws, such status not having changed.

"Protected individual" means an individual who (A) is a citizen or national of the United States, or (B) is an alien who is lawfully admitted for permanent residence, is granted the status of an alien lawfully admitted for temporary residence under 8 U.S.C. § 1160(a) or 8 U.S.C. § 1255a(a)(1), is admitted as a refugee under 8 U.S.C. § 1157, or is granted asylum under Section 8 U.S.C. § 1158; but does not include (i) an alien who fails to apply for naturalization within six months of the date the alien first becomes eligible (by virtue of period of lawful permanent residence) to apply for naturalization or, if later, within six months after November 6, 1986, and (ii) an alien who has applied on a timely basis, but has not been naturalized as a citizen within two years after the date of the application, unless the alien can establish that the alien is actively pursuing naturalization, except that time consumed in the Service's processing the application shall not be counted toward the two-year period.

3.10 Fraud, Waste and Abuse:

- a. **Fraud** includes any false representation about a material fact or any intentional deception designed to deprive the United States unlawfully of something of value or to secure from the United States a benefit, privilege, allowance, or consideration to which an individual or business is notentitled.
- b. **Waste** includes extravagant, careless or needless expenditure of Government funds, or the consumption of Government property, that results from deficient practices, systems, controls, ordecisions.
- c. Abuse includes any intentional or improper use of Government resources, such as misuse of rank, position, or authority or resources.

3.11 Funding Agreement: Any contract, grant, cooperative agreement, or Other Transaction for Prototype entered into between any Federal Agency and any small business concern for the performance of experimental, developmental, or research work, including products or services, funded in whole or in part by the Federal Government.

3.12 Innovative:

- (1) Any new technology, process, or method, including research and development; or
- (2) Any new application of an existing technology, process, or method.

3.13 Other Transaction: Refers to the type of Other Transaction Agreement (OTA) that may be placed as a result of this CSO. This type of OT is authorized by 10 U.S.C 2371b for prototype projects directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or material proposed to be acquired or developed by the DoD, or for the improvement of platforms, systems, components, or materials in use by the armed forces. This type of OTA is treated by DoD as an acquisition instruments, commonly referred to as an "other transaction" for a prototype or a Section 2371b "other transaction." The definition of a "prototype project" in the context of an OT is as follows: a prototype project addresses a proof of concept, model, reverse engineering to address obsolescence, pilot, novel application of commercial technologies for defense purposes, agile development activity, creation, design, development, demonstration of technical or operational utility, or combinations of the foregoing. A process, including a business process, may be the subject of a prototype project.

This authority also allows for a noncompetitive, follow-on OT for Production to an OT for Prototype competitively awarded and successfully completed. This statute requires advanced consideration be given and notice be made for follow-on OT for Production potential. It is a necessary precondition for such a follow-on award. As such, this solicitation documents, and resulting OTs for Prototype will include notice, follow-on OTs for Production are possible.

3.14 Performance Benchmarks for Progress Toward Commercialization: IAW the SBA SBIR/STTR Policy Directive Section 4(a)(3), DoD's established benchmark threshold applies only to Phase I applicants with more than 20 awards in the prior five fiscal years. The ratio of Phase I awards to Phase II awards received during the period must be at least 4:1. Additional information can be found at <u>https://www.sbir.gov/performance-benchmarks</u>.

3.15 Principal Investigator: The principal investigator/project manager is the individual designated to provide the scientific and technical direction to a project supported by the funding agreement.

For both Phase I and II, the primary employment of the principal investigator must be with the SBC or research institution at the time of award and during the conduct of the proposed project. Primary employment means that more than one- half of the principal investigator's time is spent in the employ of the SBC or research institution. This precludes full-time employment with another organization. Occasionally, deviations from this requirement may occur, and must be approved in writing by the contracting officer after consultation with the agency AF STTR Program Manager/Coordinator. Further, an SBC may replace the principal investigator on an STTR Phase I or Phase II award, subject to approval in writing by the contracting officer.

3.16 Proprietary Information: Proprietary information includes trade secrets, as well as commercial or financial information.

3.17 Research institution: One with a place of business located in the United States, operating primarily within the United States, or making a significant contribution to the U.S. economy through payment of taxes or use of American products, materials, or labor, and is: (1) A non-profit institution as defined in section 4(3) of the Stevenson-Wydler Technology Innovation Act of 1980 (i.e., an organization owned and operated exclusively for scientific or educational purposes, for which no part of the net earnings benefit any private shareholder or individual) or (2) a Federally-funded R/R&D center (FFRDC) as identified by the National Science Foundation (NSF) in accordance with the FAR issued in accordance with section 35(c)(1) of the Office of Federal Procurement Policy Act (or any successor regulation) (see 3.6 above). Non-profit institutions can include hospitals and military educational institutions, if they meet the definition above.

3.18 Research Involving Animal Subjects: Activities involving animal subjects shall be conducted in accordance with DoDI 3216.01, "Use of Animals in DoD Programs"; 9 CFR parts 1-4; National Academy of Sciences Publication "Guide for the Care & Use of Laboratory Animals" as amended; Department of Agriculture rules implementing the Animal Welfare Act (7 U.S.C. §§ 2131-2159); and other applicable Federal/DoD/local laws, regulations, and instructions.

"Animal use" protocols apply to activities meeting any of the following criteria:

- a. Any research, development, test, evaluation or training (including experimentation) involving an animal or animals.
- b. An animal is defined as any living or dead, vertebrate organism (non-human) being used or intended for use in research, development, test, evaluation, or training.
- c. A vertebrate is a member of the subphylum Vertebrata (within the phylum Chordata), including birds and cold-blooded animals.

See DoDI 3216.01 for definitions of these terms and applicability to work involving animals

3.19 Research Involving Human Subjects: All research involving human subjects shall be conducted in accordance with 32 C.F.R. § 219 "The Common Rule", 10 USC §980 "Limitation on Use of Humans as Experimental Subjects", and DoDD 3216.02, "Protection of Human Subjects and Adherence to Ethical Standards in DoD-Supported Research," as well as other applicable Federal and state law and regulations, and DoD component guidance. Offerors must be cognizant of and abide by the additional restrictions and limitations

imposed on the DoD regarding research involving human subjects, specifically as they regard vulnerable populations (DoDD 3216.02), recruitment of military research subjects (DoDD 3216.02), and informed consent and surrogate consent (10 U.S.C. § 980) and chemical and biological agent research (DoDD 3216.02). Food and Drug Administration regulation and policies may also apply.

"Human use" protocols apply to all research that meets any of the following criteria:

- a. Any research involving an intervention or an interaction with a living person that would not be occurring or would be occurring in some other fashion but for this research.
- b. Any research involving identifiable private information. This may include data/information/specimens collected originally from living individuals (broadcast video, web-use logs, tissue, blood, medical or personnel records, health data repositories, etc.) in which the identity of the subject is known, or the identity may be readily ascertained by the investigator or associated with the data/information/ specimens.

See DoDD 3216.02 for definitions of these terms and more information about the applicability of DoDI 3216.02 to research involving human subjects.

3.20 Research Involving Recombinant DNA Molecules: Any recipient performing research involving recombinant DNA molecules and/or organisms and viruses containing recombinant DNA molecules shall comply with the National Institutes of Health Guidelines for Research Involving Recombinant DNA Molecules, dated January 2011, as amended. The guidelines can be found at: https://osp.od.nih.gov/wp-

<u>content/uploads/NIH_Guidelines.pdf</u>. Recombinant DNA is defined as (i) molecules that are constructed outside living cells by joining natural or synthetic DNA segments to DNA molecules that can replicate in living cells or (ii) molecules that result from the replication of those described in (i) above.

3.21 Research or Research and Development:

- a. A systematic, intensive study directed toward greater knowledge or understanding of the subject studied;
- b. A systematic study directed specifically toward applying new knowledge to meet a recognized need; or
- c. A systematic application of knowledge toward the production of useful materials, devices, systems, or methods, including prototype or process design, development, and improvement to meet specific requirements.
- d. The term "research and development (R&D)" is intended broadly to include the work performed under a funding agreement with the Government. It includes R&D in all fields, including the physical sciences, engineering, etc. Research is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Development is systematic use of the knowledge and understanding gained from research, for the production of useful materials, devices, systems, or methods, including the design and development of prototypes and processes.
- **3.22 Service-Disabled Veteran-Owned Small Business (SDVOSB)**: A small business concern owned and controlled by a Service-Disabled Veteran or Service-Disabled Veterans, as defined in Small Business Act 15 USC § 632(q)(2) and SBA's implementing SDVOSB regulations (13 CFR 125).

3.23 Small Business Concern (SBC): A concern meeting the requirements set forth in 13 CFR. § 121.702. An SBC must satisfy the following conditions on the date of award:

- a. Is organized for profit, with a place of business located in the United States, which operates primarily within the United States or which makes a significant contribution to the United States economythrough payment of taxes or use of American products, materials or labor;
- b. Is in the legal form of an individual proprietorship, partnership, limited liability company, corporation, joint venture, association, trust or cooperative, except that if the concern is a joint venture, each entity to the venture must meet the requirements set forth in paragraph (c)below;
- c. Is more than 50% directly owned and controlled by one or more individuals (who are citizens or

permanent resident aliens of the United States), other small business concerns (each of which is more than 50% directly owned and controlled by individuals who are citizens or permanent resident aliens of the United States), or any combination of these; and

d. Has, including its affiliates, not more than 500 employees. (For explanation of affiliate, see_ www.sba.gov/size.)

3.24 Subcontract: A subcontract is any agreement, other than one involving an employer-employee relationship, entered into by an awardee of a funding agreement calling for supplies or services for the performance of the original funding agreement. This includes consultants.

3.25 Subcontractor: Subcontractor means any supplier, distributor, vendor, firm, academic institution, research center, or other person or entity that furnishes supplies or services pursuant to a subcontract, at any tier.

3.26 United States: The fifty states, the territories and possessions of the Federal Government, the Commonwealth of Puerto Rico, the Republic of the Marshall Islands, the Federated States of Micronesia, the Republic of Palau, and the District of Columbia.

3.27 Women-Owned Small Business Concern: An SBC at least 51% owned by one or more women, or in the case of any publicly owned business, at least 51% of the stock is owned by women, and women control the management and daily business operations.

4.0 PROPOSAL FUNDAMENTALS

Unless otherwise specified, this section applies to Phase I and II proposals.

4.1 Introduction

The proposal must provide sufficient information to demonstrate to the reviewers the proposed work represents an <u>innovative</u> approach to investigation of important scientific or engineering problems and is worthy of support under the stated criteria. The proposed R/R&D must be responsive to the topic.

4.2 Offeror Eligibility and Performance Requirements

- **a.** Each proposer must qualify as a small business concern IAW 13 C.F.R §§ 701-705 at time of award and certify to this on the proposal Cover Sheet. SBIR/STTR eligibility requirements are unique and do not correspond to other small business programs (see below). Proposers must meet eligibility requirements for Small Business Ownership and Control IAW 13 CFR § 121.702 and Section 4.4 of this CSO.
- b. Each STTR project must be conducted a minimum of 40% by the small business concern and a single research institution must accomplish a <u>minimum of 30%</u> of the effort. This applies to the SBIR-funded portion of the effort ONLY. The percentage is measured by direct and indirect costs <u>after removal of the SBC's proposed profit</u>.
- c. For Phase I and II, the principal investigator must primarily be employed with the small business firm OR research institution. At Phase I or Phase II contract award, the small business concern must employ at least one employee in a management position whose primary employment is with the small business, not with the research institution. Primary employment means <u>more than 50%</u> of the employee's time is spent with the small business. Primary employment with the small business concern precludes full-time employment at another organization.
- **d.** All Phase I and II R/R&D work must be performed by the small business concern and its subcontractors and suppliers in the U.S.
- e. Allocation of Rights: Small business concerns (SBCs) must negotiate written agreements with the research institution allocating intellectual property rights and rights to carry out follow-on research, development, or commercialization. The SBC must submit this agreement to the soliciting agency with the proposal. The SBC must certify in all proposals the agreement is satisfactory to the SBC.
- **f.** Management of the STTR Project: The small business concern (SBC), and not its partnering research institution(s), is to provide satisfactory evidence that it will exercise management direction and control of the performance of the STTR Funding agreement. Regardless of the proportion of the work or funding allocated to each of the performers under the Funding agreement, the SBC is to be the primary party with overall responsibility for project performance. All agreements between the SBC and the Research institution cooperating in the STTR Funding agreement, or any business plans reflecting agreements and responsibilities between the parties during performance of STTR Phase I or II funding agreement, or for the commercialization of the resulting technology, should reflect the controlling position of the SBC.
- g. Benchmarks. SBA is not compiling a list of companies deemed ineligible to submit proposals for new Phase I (or Direct-to-Phase II) awards based on failure to meet the Commercialization Benchmark requirement. This is subject to change; more information is found at https://www.sbir.gov/performance-benchmarks.

h. Joint Ventures: Joint ventures and limited partnerships are permitted, provided the entity created qualifies as a small business in accordance with the Small Business Act, 13 U.S.C. § 121.701. Proposers must disclose joint ventures with existing (or planned) relationships/partnerships with any foreign entity or foreign Government-controlled companies.

4.3 Administrative Proposal Requirements: The AF SBIR/STTR Center of Excellence (CoE) is committed to reducing Phase I and II proposal-to-award lead times. To this end, processes and tools have been developed allowing for rapid, streamlined contracting via periodic expedited contracting events. Such speed dictates stringent administrative practices in the proposal submission process. <u>Therefore, proposals not meeting the requirements as identified below will not be considered for award</u>.

4.3.1 Registrations and Certifications. Firms shall be registered in the DoD SBIR/STTR Innovation Portal (DSIP) to prepare and submit proposals, <u>https://www.dodsbirsttr.mil/submissions/login</u>.

Firms shall register in the System for Award Management (SAM.gov), <u>https://www.sam.gov/</u>, to be eligible for proposal acceptance. Follow instructions therein to obtain a Commercial and Government Entity (CAGE) code and Dunn and Bradstreet (DUNS) number. Firms shall also verify "Purpose of Registration" is set to "I want to be able to bid on federal contracts or other procurement opportunities. I also want to be able to apply for grants, loans, and other financial assistance programs", **NOT** "I only want to apply for federal assistance opportunities like grants, loans, and other financial assistance programs." Firms registered to compete for grants only at the time of proposal submission will not be considered for award. Addresses must be consistent between the proposal and SAM.gov at award. Previously registered firms are advised to access SAM.gov to ensure all company data is current before proposal submission and, if selected, award.

SAM will be incorporated into the modernized beta.SAM.gov environment on May 24, 2021. Once integrated, legacy SAM.gov will be decommissioned, the new environment will retire the "beta", and the system will be renamed SAM.gov. Once the integration occurs, the system will provide a modern portal for entities to register, update, renew, and check registration status. Core functions of SAM and core data will not change. No action is required from entities with active registrations. The process for registering to do business with the Government will not change.

In addition to the standard Federal and DoD procurement certifications, the SBA SBIR/STTR Policy Directive requires certain information be collected from firms at award and during the award lifecycle. Each firm will be asked to provide this additional information at the time of award (Phase I and II), prior to receiving 50% of the total award amount (Phase II only), and prior to final payment (Phase I and II).

4.3.2 Prior, Current, or Pending Support of Similar Proposals or Awards. It is permissible, with proper notification, to submit identical proposals or proposals containing a significant amount of essentially equivalent work (see Section 3.4) for consideration under multiple Federal program solicitations. However, it is unlawful to enter into contracts, grants, cooperative agreements, Other Transactions, or other award types, requiring essentially equivalent effort. <u>Questions concerning prior, current, or pending support of similar proposals or awards shall be disclosed to the soliciting agency or agencies as early as possible.</u>

4.3.3 Proprietary Information. Information constituting a trade secret, commercial or financial information, confidential personal information, or data affecting national security must be clearly marked. It shall be treated in confidence to the extent permitted by law. Awards for selected proposals

will incorporate the Work Plan, in whole or part, by reference or as an attachment. Therefore, <u>the</u> Work Plan shall be Non-Proprietary and marked accordingly.

4.3.4 Proposal Value and Period of Performance. Proposals under Topic AF21B-TCSO1 with a value greater than \$50,000, or a period of performance longer than three months, including two months technical performance and one month for reporting, **will not be considered**.

4.4 Majority Ownership in Part

Small businesses owned in majority part by multiple venture capital operating companies (VCOCs), hedge funds, or private equity funds are ineligible to submit proposals under this CSO.

4.5 **Conflicts of Interest**

Contract awards to firms owned by or employing current or previous Federal Government employees could create conflicts of interest for those employees which may be a violation of Federal law. Proposing firms should contact the cognizant Ethics Counselor from the employee's Government agency for further guidance if considering this arrangement.

4.6 Classified Proposals

Classified proposals will not be accepted in response to this CSO.

4.7 Research Involving Human Subject

All research involving human subjects, to include use of human biological specimens and human data, shall comply with the applicable Federal and state laws and agency policy/guidelines for human subject protection (see Section 3.16).

Institutions to be awarded funding for research involving human subjects must provide documentation of a current Federal Assurance of Compliance with Federal regulations for human subject protection, for example a Department of Health and Human Services, Office for Human Research Protections Federal wide Assurance (http://www.hhs.gov/ohrp).

Additional Federal Assurance documentation may also be requested by the AF. All institutions engaged in human subject research, to include subcontractors, must also have a valid Assurance. In addition, personnel involved in human subject research must provide documentation of completing appropriate training for the protection of human subjects. Institutions proposing to conduct human subject research that meets one of the exemption criteria in 32 CFR 219.101 are not required to have a Federal Assurance of Compliance. If selected, institutions must also provide documentation of Institutional Review Board (IRB) approval or a determination from an appropriate official in the institution that the work meets one of the exemption criteria with 32 CFR 219. As part of the IRB review process, evidence of appropriate training for all investigators should accompany the protocol. The protocol, separate from the proposal, must include a detailed description of the research plan, study population, risks and benefits of study participation, recruitment and consent process, data collection and data analysis.

The amount of time required for the IRB to review and approve the protocol will vary depending on such things as the IRB's procedures, the complexity of the research, the level of risk to study participants and the responsiveness of the Investigator. The average IRB approval process can last between one and three months. Once the IRB has approved the research, the AF will review the protocol and the IRB's determination to ensure that the research will be conducted in compliance with DoD and DoD Component policies. The DoD review process can last between three to six months. Ample time should be allotted to complete both the IRB and DoD

approval processes prior to recruiting subjects. No funding can be used towards human subject research until ALL approvals are granted.

4.8 Research Involving Animal Subjects

All research, development, testing, experimentation, education or training involving the use of animals shall comply with the applicable Federal and agency rules on animal acquisition, transport, care, handling, and use (see Section 3.15).

For submissions containing animal use, proposals should briefly describe plans for their Institutional Animal Care and Use Committee (IACUC) review and approval.

All selectees must receive their IACUC's approval as well as secondary or headquarters-level approval by a DoD veterinarian who is trained or experienced in laboratory animal medicine and science. No animal research may be conducted using DoD funding until all the appropriate DoD office(s) grant approval.

4.9 Research Involving Recombinant DNA Molecules

All research involving recombinant DNA molecules shall comply with the applicable Federal and state laws and regulations and any additional agency guidance. Research shall be approved by an Institutional Biosafety Committee.

4.10 Use of Unmanned Aircraft Systems (UAS)

All activities involving the operation of Unmanned Aerial Systems shall be conducted IAW Department of Defense Memo entitled "Guidance for the Domestic Use of Unmanned Aircraft Systems in the U.S. National Airspace, dated 18 August 2018 and DOD memo entitled, "Delegation Authority to Approve Exemptions for Using Commercial-Off-The-Shelf Unmanned Aerial Systems in Support of Urgent Needs, dated 16 November 2018. Contractor personnel operating DoD or DoD-contracted UAS in U.S. National Airspace, whether or not the domestic use is related to an intelligence activity, will comply with all laws, regulations, and guidance relating to the operation of UAS in U.S. National Airspace. Specific programs utilizing UAS are required to obtain an exemption for operational use of a UAS; therefore, additional documentation may be requested by the AF to support an exemption request. The DOD exemption approval process can last as long as two months. **No funding can be used for contracted-UAS operations until ALL approvals are granted.**

4.11 Proposal Status and Feedback

The Principal Investigator (PI) and Corporate Official (CO) indicated on the Proposal Cover Sheet (Volume 1) will be notified by email regarding proposal selection or non-selection. The SBC will receive a notification for each proposal submitted. Please read each notification carefully and note the proposal number referenced. If changes occur to the company mail or email address(es) or points of contact after proposal submission, the information must be provided to the AF at usaf.team@afsbirsttr.us. The message shall include the subject line, "21.B Address Change".

Feedback will be provided for Phase II – Not Selectable proposals ONLY. Feedback requests must be submitted in writing within 30 calendar days after non-selection notification receipt. Written requests for feedback must be submitted via <u>AF.SBIR.STTR_FeedbackRequest@us.af.mil</u>. Requests for feedback shall include the company name and telephone number/e-mail address for a specific point of contact, as well as an alternate. Additionally, include the topic and proposal numbers. <u>Feedback requests not including the</u> <u>specified information will not be fulfilled</u>. Feedback requests received more than 30 calendar days after non-selection notification receipt will not be fulfilled. Unsuccessful offerors are entitled to no more than one feedback response for each proposal.

Release of Proposal Review Information. After final award decisions have been announced, the peer review of the applicant's proposal may be provided to the offeror. The identity of the reviewer shall not be disclosed. Requests may be sent to the address above. The same information required for feedback requests shall be required for release of proposal review information. **If not included in the request, it will not be fulfilled.**

It is anticipated all proposal reviews will be complete, selection decisions made, and notification letters sent within approximately 90 calendar days of solicitation close. Please refrain from contacting the CSO Contracting Officer for proposal status before that time.

4.12 CSO, Selection, and Award Protests

Interested parties may have the right to protest this CSO by serving Ms. Kris Croake, AF SBIR/STTR Contracting Officer, <u>kristina.croake@us.af.mil</u>, the protest, or by filing with the Government Accountability Office (GAO), or US Court of Federal Claims. Protest of selections or awards should also be directed to Ms. Croake, filed with the GAO, or the U.S. Court of Federal Claims. If the protest is filed with the GAO, a copy of the protest shall be received by the AF Legal Operations Agency (AFLOA) within one day of filing. Protests of a selected firm's small business status should be directed to the SBA.

4.13 Phase I Award Information

- **a.** Number of Phase I Awards. It is anticipated the Air Force will make 70 awards under Topic AF212-TCSO1. The actual number of awards will depend upon funds availability and programmatic need. The Government reserves the right to award all, some, or none of the proposals received under this solicitation. The Federal Government is not responsible for any costs incurred before award receipt.
- **b.** Type of Funding Agreement. Phase I awards are FAR-based firm fixed price purchase orders.
- c. Dollar Value. Phase I awards will have a maximum value of \$50,000.
- **d.** Timing. It is intended peer review, proposal selection, negotiations and award will be complete within 180 calendar days of solicitation close.

4.14 Phase II Award Information

- **a.** Number of Awards. The number of awards will depend upon funds availability and programmatic need. The Government reserves the right to award all, some, or none of the proposals received under this solicitation. The Federal Government is not responsible for any costs incurred before award receipt.
- **b.** Type of Funding Agreement. Phase II awards will be FAR-based firm fixed price contracts or Other Transactions for Prototype under the authority of 10 USC 2731b.
- c. Average Dollar Value. Maximum dollar value for Phase II awards will be \$750,000.
- **d.** Timing. It is intended peer review, proposal selection, negotiations, and award will be complete within 180 calendar days of solicitation close.

4.15 STTR, CSO, and CSO Topic Questions

- 1. Air Force One SBIR/STTR Help Desk. The Help Desk is available to address general questions about this CSO and other program-related topics. The Help Desk can be reached at <u>usafteam@afsbirsttr.us</u>.
- 2. DoD SBIR/STTR Help Desk is prepared to address general questions about the proposal preparation and electronic submission process and other DSIP-related areas. The Help Desk may be contacted via email at DoDSBIRSupport@reisystems.com. Requests will be addressed in the order received during normal operating hours of Monday through Friday, 9:00 a.m. to 5:00 p.m. ET.

3. **Topic Q&A.** Once DSIP is opened for proposal receipt on **19 May 2021**, the only direct contact between potential offerors and Topic Authors may be when the latter is responding to a question submitted during the prerelease period. Proposers may submit written questions through the Topic Q&A at <u>https://www.dodsbirsttr.mil/submissions/login</u>. All questions and answers are posted electronically for general viewing. Identifying information for the questioner and respondent is not posted.

Questions are limited to those related to improving topic requirement understanding. Other questions, e.g., asking for advice or guidance on solution approach, will not receive a response. Proposing firms may locate the topic about which they have technical question by using the Topic Search feature on DSIP. Then, using the form at the bottom of the topic description, enter and submit the question. Answers are generally posted within seven (7) business days of question submission (answers will also be e-mailed directly to the inquirer). Once the CSO closes to proposal submission, no communication of any kind with the topic author or through Topic Q&A regarding your submitted proposal is allowed.

Proposing firms should monitor the Topic Q&A during the CSO period. Proposing firms should also frequently monitor DSIP for solicitation updates and amendments.

- 4. Updates and Notices. To receive notifications about other AF innovation opportunities, go to <u>https://af-ventures.com/</u> and <u>https://www.afwerx.af.mil/join.html</u>.
- Online Ask Me Anything (AMAs): For information on these webinars, visit <u>https://www.afwerx.af.mil/sbir.html</u>. Tentative dates for the three AMAs are 30 April, 21 May, and 4 June; all will begin at 12:00 EST.
- Web sites. The DoD SBIR/STTR Program website at <u>https://www.dodsbirsupport@reisystems.com</u> offers electronic access to SBIR/STTR opportunities, FAQs, sample proposals, model contracts, ongoing project abstracts, program updates, business and finance assistance hyperlinks, and other useful information.

4.16 Identifying RDT&E in SBIR/STTR Proposals

The definitions and criteria below govern SBIR/STTR as Research, Development, Test, and Evaluation (RDT&E) programs. These definitions and criteria implement 15 U.S.C. 638, the SBA SBIR/STTR Policy Directive (2019), and DoD Financial Management Regulation (FMR), Vol. 2A, Chapter 1, Section 0102, *Funding Policies* (June 2004, as amended). Subject to programmatic phase conditions, SBIR/STTR awards are made for research, development, test and evaluation (RTD&E) efforts.

a. Phase I and II Conditions:

Consistent with 15 U.S.C. 638 and SBA SBIR/STTR Policy Directive 2020, both Phase I and II awards are aimed at furthering "scientific and technical merit and feasibility" of ideas in the proposals. The object of Phase I is to conduct feasibility-related experimental or theoretical research/research and development related to agency's described broad or narrow requirements, as to determine the scientific and technical merit and feasibility of performance of the offeror. The object of Phase II is to continue the research/research and development effort from the completed Phase I (or from prior non-SBIR/STTR research in case of Direct to Phase II award). Phase II also includes a Special Phase II Testing and Evaluation authority.

b. Scientific and Technical Feasibility Determination IAW 15 USC 638(cc):

Direct to Phase II awards are conditioned upon the awarding agency's determination the offeror's idea has sufficient scientific and technical feasibility and merit despite the lack of Phase I award.

c. <u>Treatment of Commercial Off-the-Shelf (COTS) and Non-Developmental Items (NDIs):</u>

COTS/NDIs: Items purchased directly from a commercial source that can be utilized without alteration through design and development, or without modification, are classified as COTS or NDI. This includes, for example, ready-to-use products, training services, and software licenses for ready-to-use software to satisfy service needs (including Software as a Service (SaaS)). Purchases of COTS and NDIs for use, including the first article and associated first article acceptance testing and related minor adjustments are not suitable for SBIR/STTR funding. The acquisition of commercial items or NDIs for testing and operational evaluation that do not require RDT&E engineering, design or integration effort will not be funded by SBIR/STTR funds. However, if an end item requires design and development in order to accept the COTS or NDI, funding for design and development effort could be funded by SBIR/STTR funds. If a COTS or NDI is required for RDT&E test purposes, the cost could be funded by SBIR/STTR funds.

Modified COTS/Modified NDIs: Commercially available items that must be modified to satisfy user requirements are classified as "modified COTS" or "modified NDI" articles. In this instance, the first article, modification of the first article, and first article testing could be funded by SBIR/STTR funds. Follow-on purchases will not be funded by SBIR/STTR funds. The number of "modified" first articles bought with SBIR/STTR funds will not exceed the quantity needed to conduct the RDT&E acceptance tests. Modification is technology refreshment that significantly changes the performance envelope of the end item. If the commercially available item is modified and requires testing prior to approval for service use or inventory it may be funded by SBIR/STTR funds, as all developmental items. In contrast to modification, continuous technology refreshment is the intentional, incremental insertion of newer technology to improve reliability, improve maintainability, reduce cost, and/or add minor performance enhancement, typically in conjunction with depot or field level maintenance. The insertion of such technology into end items as part of maintenance is not funded by SBIR/STTR funds.

d. <u>Technical Baseline</u>: As RDT&E programs, SBIR/STTR efforts are subject to scientific and technical literature searches in order to establish technical baseline, avoid duplication, and justify funding IAW AFI 61-201, *Management of Scientific and Technical Information (STINFO)* (29 January 2019) and AFRL/CA guidance, *Streamlined and Waivered SBIR/STTR Specified Requirements* (05 Aug 2019).

e. <u>Special Circumstances</u>: Offerors wishing to assert special circumstances or criteria meriting SBIR/STTR funds expenditure other than those provided above must address them in the proposal and provide appropriate statutory or regulatory justification.

4.17 Promotional Material

Promotional and non-project related proposal content is discouraged. Additional information provided via website or other communication medium, except where explicitly requested, will not be considered.

4.18 Fraud and False Statements

Knowingly and willfully making false, fictitious, or fraudulent statements or representations may be a felony under the Federal Criminal False Statement Act (18 USC Sec 1001), punishable by a fine of up to \$10,000, imprisonment up to five years, or both.

The DoD Office of Inspector General (IG) Hotline is an important avenue for reporting fraud, waste, abuse, and

mismanagement within the DoD. The DoD IG operates this hotline to receive and investigate complaints or information from contractor employees, DoD civilians, military service members, and public citizens. Individuals who wish to report fraud, waste or abuse may contact the Hotline at (800) 424-9098 between 8:00 a.m. and 5:00 p.m. Eastern Time or visit <u>http://www.dodig.mil/Components/Administrative-Investigations/DoD-Hotline/Hotline-Complaint/</u>. Written correspondence should be addressed to the Defense Hotline, The Pentagon, Washington DC, 20301-1900. Email reporting is available at <u>hotline@dodig.mil</u>.

4.19 State and Other Assistance Available

Many states have established programs to provide services to small business firms wishing to participate in the Federal STTR Program. These services vary from state to state, but may include:

- Information and technical assistance;
- Matching funds to STTR award recipients;
- Assistance in obtaining Phase III funding.

Contact the state SBIR/STTR Support office at <u>https://www.sbir.gov/state_services?state=105813#</u> for further information.

4.20 Discretionary Technical and Business Assistance (TABA).

The Air Force does not utilize TABA.

4.21 Use of Support Contractors for the AF STTR Program

Proposals may be handled for administrative purposes only by support contractors, including TEC Solutions, Inc., APEX, Oasis Systems, Riverside Research, Peerless Technologies, HPC-COM, Mile Two, Wright Brothers Institute, and MacB (an Alion Company). In addition, only Government employees and technical personnel from Federally Funded Research and Development Centers (FFRDCs) MITRE and Aerospace Corporations working under contract to provide technical support to AF Life Cycle Management Center and Space and Missiles Centers may evaluate proposals. All support contractors are bound by appropriate non-disclosure agreements. Contact Kris Croake, AF SBIR/STTR Contracting Officer, at <u>kristina.croake@us.af.mil</u>, with concerns regarding the listed contractors.

4.22 Innovation in Manufacturing

Pursuant to EO 13329, high priority is accorded to proposals advancing innovation in US small business manufacturing.

4.23 Proposal Preparation Tips

Those responding to this CSO should note the proposal preparation tips listed below:

- a. Read and follow all CSO instructions.
- b. Register the firm on the secure, password-protected DSIP system and, as instructed, prepare the firm's submission. The Air Force will only accept proposals submitted via DSIP.
- c. Register in the System for Award Management (SAM), <u>https://www.sam.gov/</u>. Firms not registered in SAM.gov are ineligible for award. Verify the firm's "Purpose of Registration" is set to "I want to be able to bid on federal contracts or other procurement opportunities. I also want to be able to apply for grants, loans, and other financial assistance programs", NOT "I only want to apply for federal assistance opportunities like grants, loans, and other financial assistance programs." Firms registered to compete for grants federal assistance opportunities only at the time of proposal submission will not be considered for award. *Begin this process early, as it can take more than 30 days for registration to be*

issued or updated.

- d. Register the firm with SBA's Company Registry at <u>www.sbir.gov</u> and provide the SBA SBC Identification for each proposal Cover Sheet submitted in response to this CSO.
- e. Ensure cost adheres to Section 5.3.d (Phase I) of this CSO and the Cover Sheet cost matches the Cost Volume. The Cost Volume should ONLY include that work which will be conducted as part of the Phase I or Direct-to-Phase II effort (e.g. do not include Phase III or privately funded work); conversely, if additional Government funding will be provided to AFRL/SBRK for inclusion in the award (Phase II only), ensure it <u>IS</u> represented in the Cost Volume.
- f. Ensure the Project Abstract and other Cover Sheet content DOES NOT contain proprietary information.
- g. Mark proprietary Technical Volume information as instructed in 5.2.
- h. Ensure Technical Volume content includes the items in Section 5.3.c.
- i. Ensure the proposal is submitted to the correct Command, AFWERX, and topic number, AF212-TCSO1. Submission to the wrong Command will result in disqualification.

The AF recommends completing submission early, as computer traffic gets heavy near the announcement closing and could slow down the system. **Do not wait until the last minute.** The AF will not be responsible for proposals not submitted due to system lag or inaccessibility. <u>Please ensure the email address listed in the proposal is current and accurate</u>. The AF is not responsible for ensuring notifications are received by firms changing mailing addresses/e-mail addresses/company points of contact after proposal submission without proper notification. Changes after proposal submission or award (if selected) for Phase I and II shall be sent to usaf.team@afsbirsttr.us.

5.0 Phase I Proposal Instructions

5.1 Proposal Submission

Proposals must be electronically submitted through DSIP, <u>https://www.dodsbirsttr.mil/submissions/login</u>, no later than the date and time indicated on the CSO title page. Late proposals will not be accepted; no exceptions will be made. <u>Classified proposals are not accepted</u>: proposals shall not contain classified information or data.

Each proposal submission must contain a Proposal Cover Sheet, Technical Volume, Cost Volume, Supporting Documents, and Fraud, Waste and Abuse Training (see Section 5.4). The required submission format is Portable Document Format (.pdf). When combining .pdf documents into a full proposal, ensure digital signatures are not stripped. Graphics must be distinguishable in black and white. Virus-check all submissions. NOTE: The Government is not obligated to make any Phase I awards, nor is it responsible for offeror expenditures prior to award. All awards are subject to successful negotiations and funds availability.

The AF SBIR/STTR Program Office has instituted training and certification requirements to combat fraud in the SBIR/STTR Programs. As a result, SBCs are required to complete Fraud, Waste, and Abuse Training as part of the proposal submission process. The training is available at <u>https://www.dodsbirsttr.mil/submissions/login</u>. When training is complete and certified, DSIP will indicate so in the proposal, completing the Volume 6 requirement. If training is not completed, the submitter will receive an error message and submission cannot be completed.

This CSO and the DoD SBIR/STTR Innovation Portal (DSIP) are designed to reduce proposal preparation time and cost.

A complete proposal consists of:

- 0. Registration
 - 0.1. Dunn and Bradstreet (DUNS) Number
 - 0.2. Commercial and Government Entity (CAGE) Code
 - 0.3. Small Business Administration Small Business Concern Identification Number
- 1. Volume 1: Proposal Cover Sheet
 - 1.1. CAGE code/DUNS
 - 1.2. Certification Questions
 - 1.3. Business Information
 - 1.4. Proposal Information
 - 1.5. Contact Information
- 2. Volume 2: Technical Volume
 - 2.1. 25 Page Slide Deck
- 3. Volume 3: Cost Volume
 - 3.1. Direct Labor Costs
 - 3.2. Direct Material Costs (If Applicable)
 - 3.3. Other Direct Costs (If Applicable)
- 4. Volume 4: Company Commercialization Report
- 5. Volume 5: Supporting Documents
 - 5.1. Allocation of Intellectual Property Rights Agreement
 - 5.2. Resumes of Key Personnel
 - 5.3. DoD Funding Agreement Certification (Signed)
 - 5.4. Five-page white paper (optional)
 - 5.5. Contractor Certification Regarding Provision of Prohibited Video Surveillance and Telecommunications Services and Equipment (REQUIRED)
 - 5.6. Foreign Ownership or Control Disclosure (Offerors must review Attachment 3 to determine applicability; if applicable submission is REQUIRED)

6. Volume 6: Fraud, Waste and Abuse Training

NOTE: All proposers are required to submit Company Commercialization Report (CCR) (Volume 4), Contractor Certification Regarding Provision of Prohibited Video Surveillance and Telecommunications Services and Equipment (Volume 5), Foreign Ownership or Control Disclosure (Offerors must review Attachment 3 to determine applicable; if applicable must be completed and included in Volume 5), and Fraud, Waste and Abuse training (Volume 6).

When the offeror creates the proposal cover sheet, the system will assign a proposal number. **Record it for** <u>future reference</u>. The proposer may modify the proposal cover sheet and add or remove documentation until the solicitation closes. After upload to DSIP, click the "Verify Technical Volume" icon to ensure the proposal does not exceed 25 slides. AF will only consider slides within the limit during technical evaluation.

5.2 Marking Proprietary Proposal Information

Information contained in unsuccessful proposals will remain the property of the Applicant. The Federal Government may, however, retain copies of all proposals. Public release of information in any proposal submitted will be subject to existing statutory and regulatory requirements. If proprietary information is provided by an Applicant in a proposal, which constitutes a trade secret, commercial or financial information, it will be treated in confidence, to the extent permitted by law, provided the proposal is clearly marked by the Applicant as follows:

Proposal data the firm does not wish to make public, or to be used by the Government except for peer review, shall:

- (1) Mark the first page of each proposal volume with the following legend: "This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed-in whole or in part-for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of or in connection with the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in pages [insert numbers or other identification of sheets]"; and
- (2) Mark each sheet of data it wishes to restrict with the following legend: "Use or disclosure of data contained on this page is subject to the restriction on the first page of this volume."DoD assumes no liability for unmarked data disclosure or use and may use or disclose such data for any purpose.
- (3) Restrictive notices notwithstanding, proposals and final reports submitted through DSIP may be handled for administrative purposes only, by support contractors. All support contractors are bound by appropriate non-disclosure agreements.

5.3 Phase I Proposal Instructions

a. Proposal Cover Sheet (Volume 1)

In DSIP, <u>https://www.dodsbirsttr.mil/submissions</u>, prepare the Proposal Cover Sheet. The Cover Sheet must include a brief technical abstract of no more than 200 words describing the proposed R&D project, including anticipated benefits and potential commercial applications. **Do not include proprietary or classified information in the Proposal Cover Sheet, including the 'Technical Abstract' and 'Anticipated Benefits'.** If proposal is selected for award, the technical abstract and anticipated

benefits discussion may be publicly released. Once the Cover Sheet is saved, the system will assign a proposal number. Record that number for reference. The cover sheet can be modified as often as necessary until the CSO closes.

To increase the speed of contract award, please include a 'Coversheet Supplement' in Volume 5. This provides an opportunity to enter additional information regarding certain questions, e.g., foreign nationals proposed as team members.

b. Format of Technical Volume (Volume 2)

(1) Type of file: The Technical Volume must be a single Portable Document Format (.pdf) file, including graphics. Perform a virus check before uploading the Technical Volume file. Detected viruses may cause proposal rejection. Do not lock or encrypt the uploaded file. Do not include or embed active graphics such as videos, moving pictures, or other similar media in the document.

(2) Length: The Technical Volume is limited to 25 slides. If the submitted slide deck is more than 25 slides, the overage will not be considered during peer review. A slide deck template is provided at Attachment 1.

(3) Layout: Number all proposal slides consecutively. Those wishing to respond must submit a direct, concise, and informative R/R&D proposal <u>no more than 25 slides</u>. Each slide should contain the company name, topic number, and proposal number assigned by DSIP when the Cover Sheet was created.

c. Content of the Technical Volume (Volume 2)

The technical volume should contain a MAXIMUM of 25 slides, although fewer is permissible. Brevity and clarity are important when communicating complex topics. There are 12 required slides and nine slides required <u>only if applicable</u> to the proposal. The remaining slides may be used at the proposer's discretion.

The Technical Volume should cover the following items in the order given below.

REQUIRED SLIDES

- 1. Overall Summary Slide Including Company Name and Overview of Proposal
- 2. **Technical Merit Summary** Clearly communicate the scientific merit of the solution's central and/or enabling technological concepts, including the most effective points that demonstrate the technical merit of the solution. Identify the current scientific and/or technical baseline, referencing relevant scientific and technical literature, and describe the RDT&E effort's advancement of this baseline.
- 3. Concept and Significance of Problem/Opportunity Define the specific technical problem and/or opportunity addressed and its importance to prospective customers. Describe how your alternative is better than the customers' current solution. Communicate if and how the private sector variant of the proposed solution is different from the DoD-variant. Work proposed to the STTR program MUST be R/R&D (Phase 1) or RDT&E (Phase 2) per Section 4.4.16. If the DoD variant is no different than the commercial solution, the proposal will not be considered. Non-RDT&E procurement of commercially-available solutions is not appropriate for the STTR program.
- 4. **Summary of the Solution's Commercial Potential** Effectively demonstrate the firm's ability to commercialize the solutions in both DoD AND commercial markets. Include any applicable pilots, revenue, users, and/or other types of interest or resource investment to date demonstrating the presence of viable customer markets and Government/commercial investment for the solution. Describe the solution's competitive landscape and potential scalability.
- 5. **Team's Ability to Perform Research Summary** Identify the team, highlighting relevant education, experience, and/or capabilities demonstrating ability to develop the solution AND adapt the solution to

prospective AF customer needs. Full resumes, including a publications list, for the PI and other key technical personnel shall be included in Volume 5: Supplemental Documents.

- 6. **Defense Need** Demonstrate knowledge of prospective AF End-User(s)/Customer(s) and their most reasonable use-case for the solution. Highlight previous DoD funding for the solution or underlying technology, e.g., grants, etc. Include the proposed solution's description and compare it to the user's current state. If applicable, reference a Strategic Capability area, as described in Section 2.1.
- 7. **Phase I Objectives** Enumerate the specific Phase I objectives, including R/R&D methods to determine the proposed approach's feasibility. Describe how success in helping the identified users will be measured and plans to identify stakeholders other than end-users, e.g. safety, test or certification authorities, cybersecurity, acquisition specialists supporting prospective end-users, etc.
- 8. ***NON-PROPRIETARY* Work Plan Outline (including Subcontractors' Efforts)** Provide a clear description of the Phase I approach. Describe planned tasks, how and where work will be conducted, major events schedule, and the final deliverables. The Phase I effort should focus on determining the proposed concept's technical feasibility. Provide a work plan outline in the following format:
 - (a.) Scope: List the effort's major requirements and specifications.
 - (b.) Task Outline: Briefly outline work to be accomplished during the Phase I technical performance period.
 - (c.) Deliverables
 - (d.) Kickoff meeting within 30 calendar days after award.
 - (e.) One progress report
 - (f.) Final report with Standard Form 298, Report Documentation Page, and DD Form 882, Report of Inventions and Subcontracts.
- 9. Transition Plan Describe the plan for the solution's transition to the Air Force. Briefly describe how the proposed solution could integrate with the Air Force customer's existing efforts. A list of high-level Air Force 'Customers', i.e., Program Executive Offices can be found here: https://www.dropbox.com/s/e00ljab5qdjdb9d/AF%20Acquisitions%20%28PEOs%29%20Cheat%20Sheet.p df?dl=0.
- 10. Related Work (Dual-Use) Describe significant activities directly related to the proposed effort, including those conducted by the Principal Investigator, proposing firm, consultants, or other proposed team members. Relay their interface with the proposed project and discuss planned coordination with outside sources. The technical volume must convince reviewers of the proposer's awareness of the pertinent state-of-the-art. Describe similar previous and parallel work not directly related to the proposed effort. Provide the following: (1) short description, (2) client POC name/phone number, and (3) completion date. Describe Defense customers, including interviews conducted, if any.
- 11. Clearances/Certifications/Approvals/Registrations Include the DUNS, CAGE code, and SBA SBIR/STTR ID number. Note: This information must be valid at proposal submission or the firm may be disqualified.

INCLUDE IF APPLICABLE – Include the following slides in the deck if applicable to the proposed effort.

1. Foreign Citizens. Identify any foreign citizens or individuals holding dual citizenship expected to be involved on this project as a direct employee, subcontractor, or consultant. For these individuals, please specify their countries of origin, the type of visas or work permits under which they are performing, and the tasks they will be assigned. Offerors frequently assume individuals with dual citizenship or a work permit will be allowed to work on an STTR project and do not report them. This is not necessarily the case and a proposal will be rejected if the requested information is not provided. Therefore, firms should report any and all individuals expected to be involved on this project who are considered a foreign national as defined in Section 3.7 of the CSO. Firms may be asked to provide additional information during negotiations in order to verify foreign citizens' eligibility to participate on a STTR contract. Supplemental information provided in response to this paragraph will be protected in accordance with the Privacy Act (5 U.S.C. 552a), if applicable, and the Freedom of Information Act (5 U.S.C. 552(b)(6)).

2. Facilities/Equipment. Describe available instrumentation and physical facilities necessary to carry out

the Phase I effort. Justify equipment purchases in this section and include detailed pricing information in the Cost Volume. State whether the facilities where the proposed work will be performed meet environmental laws and regulations of federal, state (name), and local Governments for, but not limited to, the following groupings: airborne emissions, waterborne effluents, external radiation levels, outdoor noise, solid and bulk waste disposal practices, and handling and storage of toxic and hazardous materials.

3. **Prior, Current, or Pending Support of Similar Proposals or Awards**. If a proposal submitted in response to this CSO is substantially the same as another proposal previously, currently, or pending award by another AF organization, DoD component, or Federal agency must state so on the Proposal Cover Sheet and provide the following information:

(a) Other entity's name and the topic number under which the proposal was or will be submitted, or from which an award is pending or has been received.

(b) Proposal submission or award date.

(c) Proposal title.

(d) Principal investigator's name for each proposal submitted or award.

(e) Title, number, and date of CSO/solicitation(s) under which the proposal was submitted, will be submitted, or under which award is pending or has been received.

(f) If award was received, provide contract number.

Note: If this does not apply, state in the proposal "No prior, current, or pending support for proposed work."

4. **Technical Data Rights (Assertions):** Rights in technical data, including software, developed under the terms of any contract resulting from proposals submitted in response to this CSO generally remain with the contractor. The Government obtains a royalty-free license to use the technical data for Government purposes commencing with contract award and ending five years after project completion. This data should be marked with the restrictive legend specified in DFARS 252.227-7018. Upon expiration of the five-year restrictive license, the Government has unlimited rights in the STTR data. During the license period, the Government may not release or disclose STTR data to any person other than its support services contractors except (1) for evaluation purposes; (2) as expressly permitted by the contractor; or (3) for use, release, or disclosure necessary for emergency repair or overhaul of items operated by the Government. See DFARS clause 252.227-7018, "Rights in Noncommercial Technical Data and Computer Software – Small Business Innovation Research (SBIR) Program." See Section 9.5 for additional information.

Technical Data/	Basis for Assertion	Asserted Rights	Name of Person
Computer Software	-None	Category	Asserting
Furnished with	-Developed exclusively	-None	Restrictions
Restrictions	at private expense	-Gov't Purpose	
	-Developed partially at	-Limited - Tech Data	
	private expense	-Restricted - Software	
		-Specifically Negotiated	
		License	
		-Rights in STTR Data	
		÷	
(LIST)	(LIST)	(LIST)	(LIST)

If asserting data rights, include the following table in the proposal.

If a proposer plans to submit assertions IAW DFARS 252.227-7017, identification and assertion of use, release, or disclosure restrictions MUST be included with the proposal submission. If selected, the contract will not be awarded until assertions are negotiated and/or approved.

5. Supplemental Information on Direct Labor Costs. For any notable instances, e.g.,

significant # hours/high hourly wages/significant labor overhead/fringe rates, justify them in this section. For rate comparisons, <u>https://www.bls.gov/oes/current/oes_nat.htm.</u>

6. **Supplemental Information for Direct Material Costs.** Justify costs for materials, parts, and supplies with an itemized list containing types, quantities, and price and where appropriate, purposes. For the materials included in the cost volume, please provide the bases for the listed costs. This can be historical information, vendor quotes, catalogs, etc.

7. **Detailed Travel Costs (Included in Other Direct Costs)**. If travel was proposed as an Other Direct Cost, justify those expenses here. Cost for travel funds must be justified and related to the needs of the project. Provide the number of trips, travelers per trip, specific locations and purpose. Also include, to the extent practicable, the basis for the proposed flight, lodging, per diem (meals), and ground transportation costs. A useful resource for this section is <u>https://www.gsa.gov/travel/plan-book/per-diem-rates</u>.

NOTE: Travel is likely required for the Phase I feasibility study so provide estimated costs here. Actual travel costs incurred will likely differ, which is acceptable. However, this information aids Government Contracting Officers in determining proposed costs as fair and reasonable.

8. **Supplemental Information for Special Tooling and Test Equipment.** While special tooling/test equipment and material cost may be included under Phase I, these items are carefully reviewed relative to need and appropriateness for the project. Special tooling/test equipment purchases must be determined by the CO to be advantageous to the Government and directly related to the proposed effort. These may include such items as innovative instrumentation or automatic test equipment. Title to property furnished by the Government or acquired with Government funds will be vested with the Air Force unless it is determined title transfer to the contractor is more cost effective than equipment recovery by the AirForce.

9. **Ownership Structure:** Guidance regarding answers to cover sheet questions related to ownership structure.

<u>Question 5: Is 50% or more of your firm owned, controlled, or managed by a corporate entity</u>? If YES, and the corporate entity is also a small business as described in section 3.20, please include a description of the corporate relationship, including affiliates of the parent company, if any.

If the firm is 50% or more owned or managed by a corporate entity other than a small business, the proposal will be disqualified.

Question 11) Is your firm registered in the SBA's venture capital database as majority-owned by venture capital operating companies, hedge funds, or private equity firms? If YES, please state whether the VCOC, hedge fund, or private equity firm is also a small business as defined by the SBA. If so, then the VCOC, hedge fund, or private equity firm would count as an 'affiliate' and their employee numbers would be added to the prime contractor's employee total.

If the firm is majority-owned by VCOCs, hedge funds, or private equity firms NOT qualifying as small business concerns, the proposal will be disqualified.

Question 12) Is your firm more than 50% owned by a single Venture Capital Owned Company (VCOC), hedge fund, or private equity firm? If YES, please state whether the VCOC, hedge fund, or private equity firm is also a small business as defined by the SBA. If so, then the VCOC, hedge fund, or private equity firm would count as an 'affiliate' and their employee numbers would be added to the employee total.

If your firm is more than 50% owned by a single VCOC, hedge fund, or private equity firm NOT qualifying as a small business concern, the proposal will be disqualified.

Question 13) Is your firm more than 50% owned by multiple business concerns that are VCOCs, hedge funds, or private equity firms? If YES, please state whether the VCOC, hedge fund, or private equity firm is also a small business as defined by the SBA. If so, then the VCOC, hedge fund, or private equity firm would count as an 'affiliate' and their employee numbers would be added to the employee total.

If your firm is more than 50% owned by multiple VCOCs, hedge funds, or private equity firms NOT qualifying as small business concerns, the proposal will be disqualified.

Question 15) Is your firm affiliated as set forth in 13 CFR 121.103? If yes, then please describe your affiliations as described here: <u>https://www.sba.gov/document/support--affiliation-guide-size-standards</u>

<u>Question 23</u>) Are teaming partners or subcontractors proposed? If yes, include this information in the proposal Cover Sheet, Cost Volume, and Supplemental Cost Information. Include subcontractor information in the Cost Volume (Volume 3) and in Volume 5: Supplemental Information by including agreements between the offeror and its subcontractor(s). If teaming but not subcontracting with another firm, include this teaming arrangement in Volume 5: Supplemental Information.

- d. Content of the Cost Volume (Volume 3). Complete the Cost Volume in the format shown in the Cost Breakdown Guidance by using the DSIP online cost volume form. Some items in the Cost Breakdown Guidance may not apply to the proposed project and, therefore, do not need to be included. Provide enough information to allow insight into the requested funds' intended use if a contract is awarded. Please note, costs will not be audited due to the award type, i.e., FAR-based fixed price purchase orders.
- (1) Direct Labor Costs: List all key personnel by name with estimated labor hours. List non-key personnel by position/skill set along with estimated hours.
- (2) Direct Material Costs: Present costs for materials, parts, and supplies in an itemized list containing types, quantities, price, and, where appropriate, purposes. If proposing direct material costs, this justifying information can be included in the Volume 5 'Supplemental Cost Information' with vendor quotes, historical costs, etc.
- (3) Other Direct Costs: This category includes specialized services such as machining or milling, special testing or analysis, and/or costs incurred to use specialized equipment. Proposals including leased hardware, must provide an adequate lease vs. purchase justification. If proposing other direct costs, this additional information can be included in the 'Supplemental Cost Information' in Volume 5. Include Travel costs in 'Other Direct Costs', in the cost volume, list the total cost of each proposed trip, and then justify the costs in the 'Supplemental Cost Information' in Volume 5. Actual travel may differ from that proposed, however this information allows Contracting Officers to ensure travel costs are not excessive.

Include any subcontractors or consultants' costs in this section, broken out by total cost for each. The proposed total of all consultant fees, facility leases or usage fees, and other subcontract or purchase agreements may not exceed one-third of the total contract price or cost, unless otherwise approved in writing by the Contracting Officer. Include the associated subcontractor or consultant agreements in the 'Supplemental Cost Information' in Volume 5. All subcontractor costs and consultant costs must be detailed at the same level as prime contractor costs with regards to labor, travel, equipment, etc. Provide detailed substantiation of subcontractor costs. The Supporting Documents Volume (Volume 5) may be used if additional space is needed.

Research institution as a Subcontractor. <u>Involvement of a research institution in the project is required;</u> the institution should be identified and described. <u>The proposing SBC must perform a minimum of 40% and the research institution must perform a minimum of 30% of the Phase I R/R&D. as measured by direct and indirect costs AFTER REMOVAL OF THE SBC's PROPOSED PROFIT</u>. As this

requirement is codified in statute, the Government CO cannot waive it. STTR efforts may include subcontracts with Federal Laboratories and Federally Funded Research and Development Centers (FFRDCs). Not all Federal Laboratories or FFRDCs qualify as research institutions IAW the definition found in item 3.15. Proposers must certify facilities use on the proposal Cover Sheet.

The Air Force may issue an SBIR/STTR funding agreement to an SBC intending to enter into an agreement with a Federal Laboratory to perform portions of the award or has entered into a cooperative research and development agreement (see 15 USC 3710a(d)) with a Federal Laboratory, only if there is compliance with the following:

(i) The Air Force will not require the SBC enter into an agreement with any Federal Laboratory perform any portion of an SBIR/STTR award, as a condition for an SBIR/STTR award.

(ii) The Air Force will not issue an SBIR/STTR award or approve an agreement between an SBIR/STTR awardee and Federal Laboratory if the SBC will not meet the minimum work performance requirements set forth in § 6(a)(4) of this Policy Directive.

(iii) The Air Force will not issue an SBIR/STTR award or approve an agreement between an SBIR/STTR Awardee and a Federal Laboratory that violates any SBIR/STTR requirement set forth in statute or this Policy Directive, including any SBIR/STTR Data Rights protections.

(iv) Neither the Air Force nor the Federal Laboratory will require a SBIR/STTR awardee to allow the Federal Laboratory to perform program portions providing for an advance payment greater than that necessary to cover 30 days' performance.

NOTE: Companies selected for award may be required to submit further documentation to substantiate costs, e.g., support equipment, materials, consultant, or subcontractor costs. Neither Phase I funding commitments nor cost share are permitted for proposals under Topic AF21B-TCSO1.

e. Company Commercialization Report (CCR) (Volume 4)

The Company Commercialization Report (CCR) requires companies to report funding outcomes resulting from prior SBIR and STTR awards. The Company Commercialization Report (CCR) is mandatory for Phase I and II proposals. During proposal submission, proposing firms with no prior DoD or non-DoD SBIR/STTR awards can select "No" for the question "Do you have a new or revised Company Commercialization Report to upload?".

Proposing firms with prior DoD and/or non-DoD Phase I and/or Phase II SBIR/STTR awards must complete the CCR, regardless of whether the project has any commercialization to date, by logging into their account at <u>https://www.sbir.gov/</u>. To view or print the information currently contained in the Company Registry Commercialization Report, navigate to My Dashboard => My Documents. To create or update the commercialization record, from the company dashboard, scroll to My Commercialization and click the Create/Update Commercialization tab under Current Report Version. Please refer to the Instructions and Guide documents in this Dashboard section for more information.

WARNING: Uploading a new Company Commercialization Report (CCR) under the Firm Information section of DSIP or clicking "Save" or "Submit" in Volume 4 of one proposal submission is considered a change for ALL proposals under any open BAAs or CSOs. If a proposing firm previously certified and submitted Phase I or Direct to Phase II proposals under *any* still-open BAA or CSO, those proposals will be automatically reopened. Those proposals must be recertified and resubmitted. If the proposals are not recertified and resubmitted, they will not be considered fully submitted nor will they be evaluated.

After certification and submission on SBIR.gov, click the Company Commercialization Report .pdf under the Dashboard My Documents section and download. The file must be uploaded to Volume 4 CCR area in the Firm Information section of DSIP by the Firm Admin. To confirm upload, all other firm users will have read-only access to the CCR from the proposal submission page.

IMPORTANT: If the proposing firm has multiple Phase I or Direct to Phase II proposal submissions in one or more open BAAs or CSOs, uploading a new Company Commercialization Report (CCR) under the Firm Information section of DSIP or clicking "Save" or "Submit" in Volume 4 of one proposal submission is considered a change for ALL proposals under currently open BAAs or CSOs. Any previously certified and submitted Phase I and Direct to Phase II proposals under any open BAA or CSO will be reopened and will need to be recertified and resubmitted to be considered fully submitted.

f. Supporting Documents (Volume 5)

The Supporting Documents Volume (Volume 5) is provided for small businesses to submit additional documentation to support the Technical Volume (Volume 2) and the Cost Volume (Volume 3). The Supporting Documents Volume is available for use for submitting Phase I and II proposals for the SBIR and STTR Programs.

Documents required for inclusion in Volume 5 are:

- 1. Allocation of Rights –_ <u>https://www.afsbirsttr.af.mil/Portals/60/Pages/Phase%20I-</u> <u>II/Model%20agreement%20for%20the%20allocation%20of%20rights.pdf</u> (REQUIRED)
- 2. SBC and Research Institution Teaming Agreement (REQUIRED) Under Federal Acquisition Regulation (FAR) 9.6, a contractor **teaming** arrangement is when a potential prime contractor **agrees** with one or more other companies to have them act as its subcontractors under a specified Government **contract** or acquisition program.
- 3. Resumes of Key Personnel (REQUIRED)
- 4. DoD Funding Agreement Certification (Signed) (REQUIRED) Certification be completed and signed at time of proposal submission, and included in Volume 5. This certification can be found at <u>https://www.afsbirsttr.af.mil/Program/Phase-I-and-II/</u> under "Phase I and II Certification – Funding Agreement."
- 5. Contractor Certification Regarding Provision of Prohibited Video Surveillance and Telecommunications Services and Equipment Attachment 2 (REQUIRED)
- 6. Foreign Ownership or Control Disclosure Attachment 3 (Offerors must review the attachment to determine applicability; if applicable, inclusion is REQUIRED)

Accepted documents to be included in Volume 5, if applicable, are:

- Letters of Support: Demonstrate the proposed innovation, if developed, may solve a valid market need. Letters of support can also validate commercial/defense impact detailed in the proposal. Letters from potential technology end users, e.g., customers/corporate partners/collaborators and actual/potential investors are appropriate. Specific items suitable for inclusion include, but are not limited to, names of interested organizations, problem proposed solution addresses, impact if solved, e.g., dollars, hours, lives saved, etc., and signature of provider. All letters should be uploaded in a single .pdf file organized logically. NOTE: When combining .pdf documents, ensure digital signatures are not stripped.
- Lifecycle Certifications <u>https://www.afsbirsttr.af.mil/Portals/60/Pages/Phase%20I-II/SBIR-STTR-Phase-I-II-Life%20Cycle%20Certifications.pdf</u>.
- 3. ITAR/EAR Certification: Proposed solutions subject to export control regulations, either International Traffic in Arms (ITAR) or Export Administration Regulations (EAR), require a certified DD Form 2345, Militarily Critical Technical Data Agreement, or evidence of application.

The form, instructions, and FAQs may be found at the United States/Canada Joint Certification Program website,_

http://www.dla.mil/HQ/InformationOperations/Offers/Products/LogisticsApplications/JCP/DD2345In structions.aspx. DD Form 2345 approval will be verified if selected for award.

- 4. Optional white paper not to exceed five pages providing additional information not addressed in the Volume 2 slide deck, if necessary.
- 5. Other, as needed.

g. Contractor Certification Regarding Provision of Prohibited Video Surveillance and Telecommunications Services and Equipment

The DoD must comply with Section 889(a)(1)(B) of the National Defense Authorization Act (NDAA) for Fiscal Year 2019, and is working to reduce or eliminate contracts with entities using equipment, systems, or services that uses covered telecommunications equipment or services (as defined the attachment) as a substantial or essential component of any system, or as critical technology as part of any system.

All proposals must include certifications as found in Federal Acquisition Regulation (FAR) clauses 52.204-24, 52-204-25, and 52-204-26, found in Attachment 2. The certifications must be signed by the authorized company representative and uploaded as a separate PDF file in the supporting documents sections of Volume 5 for all proposal submissions.

The certification completion includes due diligence for contractors proposed as a part of the submission, including research partners and suppliers. Therefore, proposers are strongly encouraged to review the certification requirements early in the proposal development process. Failure to complete and/or submit the required certifications may be cause for rejection of the proposal without evaluation.

h. Foreign Ownership or Control Disclosure. Offerors must review Attachment 3 to determine applicability. If applicable, an authorized firm representative must complete/sign the document before uploading to Volume 5.

i. Fraud, Waste and Abuse Training (Volume 6)

The Fraud, Waste and Abuse (FWA) training is **required** for all proposals. The training provides information regarding what constitutes FWA in the SBIR/STTR Programs, the most common mistakes leading to FWA, as well as penalties for and ways to prevent FWA. This training material can be found in the Volume 6 section of the proposal submission module in DSIP and must be thoroughly reviewed once per year. Plan ahead and leave ample time to complete this training based on the proposal submission deadline. FWA training must be completed by one DSIP firm user with read/write access (Proposal Owner, Corporate Official or Firm Admin) on behalf of the firm.

5.4 Phase I Proposal Checklist

The Offeror's proposal shall be prepared in accordance with Section 5.0. A complete proposal consists of:

- 0. Registration
 - 0.1. DUNS
 - 0.2. CAGE Code
 - 0.3. SBA SBC ID
- 1. Volume 1: Proposal Cover Sheet
 - 1.1. CAGE Code/DUNS
 - 1.2. Certification Questions
 - 1.3. Business Information
 - 1.4. Proposal Information
 - 1.5. Contact Information
- 2. Volume 2: Technical Volume
 - 2.1. 25 Slide Deck
- 3. Volume 3: Cost Volume

- 3.1. Direct Labor Costs
- 3.2. Direct Material Costs (If Applicable)
- 3.3. Other Direct Costs (If Applicable)
- 4. Volume 4: Company Commercialization Report (CCR)
- 5. Volume 5: Supporting Documents
 - 5.1. Teaming Agreement with Research Institution
 - 5.2. Resumes of Key Personnel
 - 5.3. DoD Funding agreement Certification (Signed)
 - 5.4. Contractor Certification Regarding Provision of Prohibited Video Surveillance and Telecommunications Services and Equipment (REQUIRED)
 - 5.5. Foreign Ownership or Control Disclosure (Offerors must review Attachment **3** to determine applicability; if applicable, inclusion is REQUIRED.)
- 6. Volume 6: Fraud, Waste and Abuse Training
- 7. Offerors should note the proposal preparation tips listed below:
 - a. Read and follow all CSO instructions.
 - b. Register the firm in DSIP and prepare the firm's submission.
 - c. Register the firm with SBA's Company Registry at <u>www.sbir.gov</u> and provide the SBA SBC Identification Number on each proposal coversheet.
 - d. Check the cost is below or equal to the value specified in the CSO. Also ensure the Cover Sheet cost matches the Cost Volume.
 - e. Ensure the Project Abstract and other Cover Sheet content contains NO proprietary information.
 - f. Mark proprietary information within the Technical Volume as instructed in Section 5.2.
 - g. The content in the Technical Volume includes the items in Section 5.3.c.
 - h. Each technical volume page header should contain the company name, topic number, and proposal number.
 - i. The Company Commercialization Report is submitted online in accordance with Section 5.3.e.

NOTE TO PHASE I OFFERORS: Inclusion of Customer Memoranda is required for Phase II proposals. A mandatory template will be made available. This Customer Memorandum formally captures interest from the empowered and committed AF end-users and customers. The Customer Memorandum is also used for technical review purposes as discussed in Section 8.0, Phase II Review Criteria. Phase II proposals without signed Customer memoranda will not be considered for award. Customer Memoranda will be required for inclusion in the '*Letters of Support' Section* in Volume 5, Supporting Documents.

6.0 PHASE I REVIEW CRITERIA

All Phase I and II proposals will be evaluated and judged on a competitive basis. Proposals will be initially screened to determine solicitation responsiveness. Proposals passing this initial screening will be peer reviewed by engineers and/or scientists to determine the most promising technical and scientific approaches. Each proposal will be judged on its own merit. AF is under no obligation to fund any proposal or any specific number of proposals under this topic. It also may elect to fund several or none of the topic's proposed approaches.

Proposals will be peer reviewed based on the criteria below. Selections will represent best value to the Government considering the following factors which are of equal importance:

- j. The potential for Government or private sector commercialization application and benefits expected to accrue from commercialization. The SBC's record of commercializing STTR or other research and Phase II follow-on commitments for the subject research are evidence of commercialization potential.
- k. The appropriateness, relevance, and specificity of an identified Defense Need. Adequacy of the proposed effort and its relationship to fulfilling the identified Defense Need.
- 1. The soundness, technical merit, and innovation of the proposed approach and its incremental progress toward fulfilling the identified Defense need. Includes the proposed Principal Investigators/Project Managers, supporting staff, and consultant qualifications to execute the proposed approach.

Price reasonableness will be considered to the extent appropriate. IAW 15 USC 638(dd)(7), investment by venture capital, private equity firms, or hedge funds shall not be used as an award criterion. Peer reviewers will base conclusions solely on proposal content. It cannot be assumed reviewers are acquainted with the firm, key individuals, or referenced experiments.

Other Factors Considered During the Selection Process:

- National security concerns.
- IAW EO 13329, proposals advancing innovation in U.S. small business manufacturing are given high priority.
- The Energy Independence and Security Act of 2007 (Act), 19 December 2007, P.L. 110-140, prioritizes energy efficiency/renewable energy system R&D projects. Proposals from eligible US-owned SBCs accomplishing biomedical research in energy efficiency/renewable energy systems are encouraged.
- Total cost to the Government may be considered to determine the successful offeror when multiple proposals are determined equal in technical merit.

7.0 PHASE II PROPOSAL

The AF reserves the right to modify Phase II submission requirements. Should requirements change, all Phase I awardees will be notified. The AF also reserves the right to change administrative procedures to improve AF STTR Program management. This section is for informational purposes for Phase I awardees. A more specific letter Request for Proposal will be provided to all Phase I awardees as described in Section 7.1.

7.1 Introduction

Phase II is the demonstration of the technology found feasible in Phase I. Only Phase I awardees are eligible to submit Phase II proposals. All Phase I awardees will be sent a notification with the Phase II proposal submittal date and detailed proposal preparation instructions.

7.2 Proposal Provisions

IMPORTANT -- While it is permissible, with proper notification, to submit identical proposals or proposals containing a significant amount of essentially equivalent work for consideration under numerous Federal program solicitations, it is unlawful to enter into contracts or grants requiring essentially equivalent effort. If there is any question concerning this, it must be disclosed to the soliciting agency as early as possible. If a proposal submitted for a Phase II effort is substantially the same as a previously funded proposal, is now being funded, or is pending award with another Federal Agency, DoD Component, or AF organization, it must be noted on the Cover Sheet and required information included in Section 5.4.c(11).

Due to agency specific limitations on funding and number of awards made to a particular firm per topic using SBIR/STTR funds, Head of Agency determinations are now required before another agency may make an award under that topic. This limitation does not apply to Phase III funding. Please contact the original sponsoring agency before submitting a Phase II proposal to an agency other than the original topic sponsor.

Section 4(b)(1)(i) of the SBIR/STTR Policy Directives states, at the agency's discretion, companies awarded a Phase I under a SBIR solicitation may transition to STTR in Phase II and vice versa. A firm wishing to transfer from one to the other must contact the designated technical monitor to discuss the basis and the agency's ability to support it. The transition may be proposed prior to award or during Phase II performance. Agency disapproval of a change request shall not be grounds for granting relief from contractual performance requirements All approved transitions requiring a research institution's removal and revision to work percentages must be noted in the Phase II award or modification signed by the Contracting Officer.

NOTE TO PHASE I OFFERORS: Inclusion of a Customer Memorandum will be mandatory for the Phase II proposal. A mandatory template will made available. This Customer Memorandum formally captures interest from the empowered and committed AF end-users and customers. The Customer Memorandum is also used for technical review purposes as discussed in Section 8.0, Phase II Review Criteria. Phase II proposals without a signed Customer memorandum will not be considered for award. Customer Memoranda will be required for inclusion in the '*Letters of Support' Section* in Volume 5, Supporting Documents.

7.3 How to Submit

Phase I awardees will be notified when the Phase II submission period will open. Each Phase II proposal must be submitted through the DSIP, <u>https://www.dodsbirsttr.mil/submissions/logon.</u> Please ensure the proposal is submitted to the correct Command under the correct topic number. Each proposal submission must contain a Proposal Cover Sheet, Technical Volume, Cost Volume, Company Commercialization Report Supporting Documents and Fraud, Waste and Abuse Training. The preferred format for proposal submission is Portable Document Format (.pdf). Graphics must be distinguishable in black and white. Please virus-check all submissions.

The term "Command" on the Cover Sheet refers to the soliciting AF organization, which should be "AFWERX". **Proposals submitted to the wrong Command will not be considered for award**.

NOTE: The Government reserves the right to award all, some, or none of the proposals received. The Government is also not responsible for offeror expenditures prior to award. All awards are subject to successful negotiations and funds availability.

8.0 PHASE II REVIEW CRITERIA

All Phase II proposals will be evaluated on a competitive basis. Proposals will initially be screened to determine responsiveness. Proposals passing this initial screening will be peer reviewed by engineers or scientists to determine the most promising technical and scientific approaches. Each proposal will be judged on its own merits. Phase I firms may submit ONLY ONE Phase II proposal per Phase I award. AF is under no obligation to fund a specific number of Phase I proposals and may elect to award none.

Proposals will be peer reviewed based on the criteria below. Selections will represent best value to the Government considering the following factors of equal importance:

1. The potential for Government or private sector commercialization and benefits expected to accrue from commercialization.

- The SBC's record of commercializing STTR or other research, as indicated by pre-sales, pilots, sales, revenue, active users, subscriptions, downloads, and/or other forms of traction/adoption;
- The existence of Phase II follow-on commitments for the subject research;
- Funding commitments related to the subject effort, whether from Government sources, as documented in the Air Force Customer Memorandum, or private sources, as documented through a letter of commitment, are evidence of commercialization potential.
- A sound transition strategy in the Air Force Customer Memorandum is also evidence of commercialization potential.
- 2. The appropriateness, relevance, and specificity of an identified Defense Need. A complete and compelling Air Force Customer Memorandum (mandatory template to be provided with the Phase II request for proposal), signed by an appropriate end-user and customer, indicates the appropriateness, relevance, and specificity of an identified Defense Need. While not required, signed letters of interest (content to be defined in the Phase II request for proposal) from other Government personnel, may be indicators of the appropriateness, relevance, and specificity of an identified Defense Need. Adequacy of the proposed effort and its relationship to fulfilling the identified Defense Need.
- 3. The soundness, technical merit, and innovation of the proposed approach, as well as its differentiation from current customer alternatives, and incremental progress toward fulfilling the identified Defense need. Includes the proposed Principal Investigators'/Project Managers', supporting staff, and consultants' qualifications to execute the proposed approach.

Price reasonableness will be considered to the extent appropriate. IAW 15 USC 638(dd)(7), investment by venture capital, private equity firms, or hedge funds shall not be used as an award criterion. Peer reviewers will base conclusions solely on proposal content. It cannot be assumed reviewers are acquainted with the firm, key individuals, or referenced experiments.

Other Factors Considered During the Selection Process:

- National security concerns.
- IAW EO 13329, proposals advancing innovation in U.S. small business manufacturing are given high priority.
- The Energy Independence and Security Act of 2007 (Act), 19 December 2007, P.L. 110-140, prioritizes energy efficiency/renewable energy system R&D projects. Proposals from eligible US-owned SBCs accomplishing biomedical research in energy efficiency/renewable energy systems are encouraged.
- Directly related Phase II funding commitments from non-SBIR Government sources may be considered to determine the successful offeror when multiple proposals are determined equal in technical merit.

9.0 CONTRACTUAL REQUIREMENTS

9.1 Other Contractual Requirements

Awardees will be required to make certain legal commitments through acceptance of Government contract clauses or OT articles. The following outline is illustrative of provisions required by the FAR or statute for inclusion in Phase II awards. This is not a complete list, nor does it contain specific clause/article wording.

- a. Standards of Work. Work performed under the award must conform to professional standards.
- b. **Inspection.** Work performed under the award is subject to Government inspection and evaluation at all reasonable times.
- c. **Examination of Records.** The Comptroller General (or a fully authorized representative) shall have the right to examine any directly pertinent awardee records involving award transactions.
- d. Default. The Government may terminate the award for failure to perform the negotiated effort.
- e. **Termination for Convenience.** The Government may terminate the award at any time if it deems termination in its best interest. The firm will be compensated for work performed and reasonable termination costs.
- f. **Disputes.** Any award dispute not resolved by agreement shall be decided by the Contracting or Agreements Officer with right of appeal.
- g. **Contract/OT Work Hours.** The awardee may not require an employee to work more than eight hours a day or forty hours a week unless compensated accordingly through overtime pay.
- h. **Equal Opportunity.** The firm will not discriminate against any employee or employee applicant because of race, color, religion, sex, or national origin.
- i. Affirmative Action for Veterans. The awardee will not discriminate against any employee or applicant for employment because he or she is a disabled veteran.
- j. Affirmative Action for Handicapped. The awardee will not discriminate against any employee or applicant for employment because he or she is physically or mentally handicapped.
- k. **Officials Not to Benefit.** No Federal Government official may benefit personally from the SBIR/STTR funding agreement.
- 1. **Covenant Against Contingent Fees.** No person or agency has been employed to solicit or secure the award upon an understanding for compensation except bona fide employees or commercial agencies maintained by the awardee for the purpose of securing business.
- m. **Gratuities**. The Government may terminate the contract if gratuities have been offered to any Government representative to secure the awardee.
- n. **Patent Infringement.** The awardee shall report each notice or patent infringement claim based on contract performance.
- o. **Military Security Requirements.** The awardee shall safeguard classified information associated with the contracted work IAW applicable regulations.
- p. American Made Equipment and Products. The awardee will purchase equipment and/or products in support of the STTR award from U.S.-based sources whenever possible.
 Applicable Federal Acquisition Regulation (FAR) and/or Defense Federal Acquisition Regulation Supplement (DFARS) Clauses:
- q. Unique Identification (UID). If hardware will be delivered to the Government under the award, there is potential unique item identification will be required IAW DFARS 252.211-7003.
- r. **Disclosure of Information.** In accordance with FAR 252.204-7000, Government review and approval will be required prior to any dissemination or publication, regardless of medium (e.g., film, tape, document), pertaining to any part of this contract or any program related to this contract except within and between the Contractor and any subcontractors, of unclassified and non-fundamental information developed under this contract or contained in the reports to be furnished pursuant to this contract

- s. **Publication Approval.** Government review and approval will be required prior to dissemination or publication, except within and between the awardee and its subcontractors (if any), of classified and non-fundamental information developed under this award or contained in reports to be furnished pursuant to this award.
- t. Animal Welfare. Awards involving research, development, test, evaluation, or training on vertebrate animals will incorporate DFARS clause 252.235-7002 or similar verbiage.
- Protection of Human Subjects. Effective 29 July 2009, contracts including or potentially including research involving human subjects IAW 32 CFR Part 219, DoD Directive 3216.02, and 10 U.S.C. 980,including research meeting exemption criteria under 32 CFR 219.101(b), will incorporate DFARS clause 252.235-7004 or similar verbiage.
- v. E-Verify. Contracts exceeding the simplified acquisition threshold may include the FAR clause 52.222-54 "Employment Eligibility Verification" unless exempted by the conditions listed at FAR 22.1803. Similar verbiage will be included in OT awards unless determined exempt through comparable determination.
- w. ITAR. IAW DFARS 225.7901-4, Export Control Contract Clauses, the clause found at DFARS 252.225-7048, Export-Controlled Items (June 2013), must be included in all solicitations and contracts; therefore, all awards resulting from this CSO will include DFARS 252.225-7048 or similar verbiage. Full text:_ https://www.acquisition.gov/dfars/part-252-clauses#DFARS-252.225-7048
- x. **Cybersecurity.** Awardees are required to provide adequate security on all covered business information systems. Specific security requirements are listed in DFARS 252.204.7012, and compliance is mandatory.
- y. Safeguarding Covered Defense Information Controls. As prescribed in DFARS 252.204-7008, for covered contractor information systems that are not part of an information technology service or system operated on behalf of the Government, the SBC represents that it will implement the security requirements specified by National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, "Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations".
- z. Limitations on the Use or Disclosure of Third- Party Contractor Reported Cyber Incident Information. As required in DFARS 252.204-7009, the Contractor must agree that certain conditions apply to any information it receives or creates in the performance of a resulting contract that is information obtained from a third-party's reporting of a cyber incident pursuant to DFARS clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (or derived from such information obtained under that clause).
- aa. Notice of NIST SP 800-171 DoD Assessment Requirements. As prescribed by DFARS 252.204-7019, in order to be considered for award, the SBC is required to implement NIST SP 800-171. The SBC shall have a current assessment (see 252.204-7020) for each covered contractor information system that is relevant to the offer, contract, task order, or delivery order. The Basic, Medium, and High NIST SP 800-171 DoD Assessments are described in the NIST SP 800-171 DoD Assessment Methodology located at https://www.acq.osd.mil/dpap/pdi/cyber/strategically_assessing_contractor_implementation_of_NIST_SP 800-171.html. In accordance with DFARS 252.204-7020, the SBC shall provide access to its facilities, systems, and personnel necessary for the Government to conduct a Medium or High NIST SP 800-171 DoD Assessment, as described in NIST SP 800-171 DoD Assessment Methodology, linked above. Notification of specific requirements for NIST SP 800-171 DoD assessments and assessment level will be provided as part of the component instructions, topic, or award.
- bb. **Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment**. FAR 52.204-25 - Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system AND from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or

essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

FAR 52.204-24 - The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it "does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument" in the provision at 52.204-26, Covered Telecommunications Equipment or Services—Representation, or in paragraph (v) of the provision at 52.212-3, Offeror Representations and Certifications-Commercial Items.

cc. **Disclosure of Ownership or Control by a Foreign Government.** In accordance with DFARS 252.209-7002, Disclosure of Ownership or Control by a Foreign Government (Jun 2010), any SBC submitting a proposal in response to this solicitation is required to disclose, by completing Attachment 5, Foreign Ownership or Control Disclosure, any interest a foreign Government has in the SBC when that interest constitutes control by a foreign Government. If the SBC is a subsidiary, it is also required to disclose any reportable interest concerning the SBC's immediate, intermediate, or ultimate parent.

11.2 Basic Safeguarding of Covered Contractor Information Systems

FAR 52.204-21, Basic Safeguarding of Covered Contractor Information Systems, is incorporated into this solicitation. In accordance with FAR 52.204-21, the contractor shall apply basic safeguarding requirements and procedures when the contractor or a subcontractor at any tier may have Federal contract information residing in or transiting through its information system.

FAR 52.204-21 Basic Safeguarding of Covered Contractor Information Systems (JUN 2016)

a) Definitions. As used in this clause - *Covered contractor information system* means an information system that is owned or operated by a contractor that processes, stores, or transmits Federal contract information.

Federal contract information means information, not intended for public release, that is provided by or generated for the Government under a contract to develop or deliver a product or service to the Government, but not including information provided by the Government to the public (such as on public Web sites) or simple transactional information, such as necessary to process payments.

Information means any communication or representation of knowledge such as facts, data, or opinions, in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual (Committee on National Security Systems Instruction (CNSSI) 4009).

Information system means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information (44 U.S.C. 3502).

Safeguarding means measures or controls that are prescribed to protect information systems

(b) Safeguarding requirements and procedures.

(1) The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:

(i) Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).

(ii) Limit information system access to the types of transactions and functions that authorized users are permitted to execute.

(iii) Verify and control/limit connections to and use of external information systems.

(iv) Control information posted or processed on publicly accessible information systems.

(v) Identify information system users, processes acting on behalf of users, or devices.

(vi) Authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.

(vii) Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.

(viii) Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.

(ix) Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.

(x) Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems.

(xi) Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.

(xii) Identify, report, and correct information and information system flaws in a timely manner.

(xiii) Provide protection from malicious code at appropriate locations within organizational information systems.

(xiv) Update malicious code protection mechanisms when new releases are available.

(xv) Perform periodic scans of the information system and real-time scans of files from external sources as files are downloaded, opened, or executed.

(2) **Other requirements**. This clause does not relieve the Contractor of any other specific safeguarding requirements specified by Federal agencies and departments relating to covered contractor information systems generally or other Federal safeguarding requirements for controlled unclassified information (CUI) as established by Executive Order 13556.

(c) *Subcontracts*. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial items, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.

11.3 Commercialization Updates in Phase II

After Phase II award, the awardee shall be required to periodically update the following Phase II commercialization results at <u>https://www.dodsbirsttr.mil/submissions</u>.

- 11.3.1 Sales revenue from Phase II-developed new products and non-R&D services;
- 11.3.2 Additional investment from non-Federal SBIR/STTR Program in activities furthering PhaseII technology development and/or commercialization;
- 11.3.3 Phase II technology used in a fielded DoD system or acquisition program and, if any, which system or program;
- 11.3.4 The number of patents resulting from SBIR/STTR Program awards;
- 11.3.5 Growth in number of firm employees; and
- 11.3.6 Completion of an initial public offering of stock (IPO), if any, resulting all or in part from the Phase II project.

Project updates will be required one year after Phase I performance starts, at Phase II completion, and when the firm submits a new SBIR or STTR proposal to DoD. Firms not submitting new proposals to DoD will update annually after Phase II completion.

11.4 Copyrights

With the Contracting or Agreements Officer's prior written permission, the awardee may copyright (consistent with appropriate national security considerations, if any) material developed with DoD support. DoD receives a royalty-free license for the Federal Government and requires each publication contain an appropriate acknowledgment and disclaimer statement.

11.5 Patents

Awardees normally may retain the principal worldwide patent rights to Government-funded inventions. The Government receives a royalty-free license, reserves the right to require the patent holder to license others in certain limited circumstances, and requires anyone exclusively licensed to sell the invention in the United States to manufacture it domestically. As authorized by 35 USC 205, the Government will not make public information disclosing a Government-supported invention for <u>a period of five years</u> to allow the awardee to pursue a patent. See also Invention Reporting in Section 10.6.

11.6 Technical Data Rights

Rights in technical data, including software, developed under the award terms resulting from proposals submitted under this CSO, generally remain with the awardee. The Government obtains a royalty-free license to use such technical data only for Government purposes during the <u>period commencing at the time of award and ending 5</u> years after project completion. This data should be marked with the restrictive legend specified in DFARS 252.227-7018 or similar. Upon expiration of the 5 year restrictive license, the Government has unlimited rights in the STTR data. During the license period, the Government may not release or disclose STTR data to any entity other than its support services contractors except (1) for evaluation purposes; (2) as expressly permitted by the contractor; or (3) use, release, or disclosure is necessary for emergency repair or overhaul of Government-operated items. See DFARS clause 252.227-7018, "Rights in Noncommercial Technical Data and Computer Software – Small Business Innovation Research (SBIR) Program" at <u>https://www.ecfr.gov/cgi-bin/text-idx?rgn=div5;node=48%3A3.0.1.8.48#se48.3.252_1227_67018</u>.

If a proposer plans to submit assertions IAW DFARS 252.227-7017 or similar award term, those assertions must be identified and restrictions MUST be included in the proposal submission. Award cannot be executed until assertions are approved or mutually agreed-upon during negotiations.

11.7 Invention Reporting

STTR awardees must report inventions to the Component within two months of the inventor's report to the awardee. The inventions report may be accomplished by submitting paper documentation to AFRL/SBRK Sprints, <u>sbrk.sprints@us.af.mil</u>.

11.8 Final Technical Reports

a. Content: A final report is required for each award. The reports must contain detail regarding the project objectives, work performed, results obtained, and estimates of technical feasibility. A completed SF 298, "Report Documentation Page," will be used as the report's first page. The Report Documentation Page may be prepared and printed from Defense Technical Information Center's (DTIC's) site at_http://www.dtic.mil/dtic/submit/guidance_on_submitting_docs_to_dtic.html. A completed DD Form 882, Report of Inventions and Subcontracts, shall also be submitted with the draft final technical report.

b. SF 298 Form "Report Documentation Page" Preparation:

 For unclassified reports, the submitting company should fill in Block 12 (Distribution/ Availability Statement) of the SF 298, "Report Documentation Page," with the following statement: "Distribution authorized to U.S. Government only; Proprietary Information, (Date of Determination). Other requests for this document shall be referred to the Component STTR Program Office." Note: Data developed under SBIR/STTR awards is subject to DFARS 252.227-7018 or similar protection. AF will review the awardee's Block 12 information and assign the final distribution statement. For additional guidance, go to http://www.dtic.mil/dtic/pdf/distribution_statements_and_reasons.pdf.

Block 14 (Abstract), "Report Documentation Page" must include as the first sentence, "<u>Report</u> developed under SBIR/STTR contract (or OT) for topic [insert topic number]. [Follow with the topic <u>title</u>, if possible.]" The abstract must identify the work's purpose and briefly describe that conducted, the findings/results, and potential applications. The abstract will be published by the DoD. Therefore, **it shall not contain proprietary or classified data.** Type "UU" in Block 17.

2. Block 15 (Subject Terms) 298 must include the term "STTR Report".

c. Submission:

All final reports are submitted to the awarding AF organization IAW the award document. Companies shall not submit Final Reports directly to DTIC. Delivery is normally required within 30 calendar days after technical program completion.

Requirements regarding other deliverables' submission will be defined in Sections B and C of contract, and Appendix A, Other Transaction for Prototype, award documents.

DO NOT E-MAIL classified or controlled unclassified reports, or reports containing SBIR/STTR Data Rights protected under DFARS 252.227-7018.

Proprietary Information in Proposals: Information contained in unsuccessful proposals will remain the property of the Applicant. However, the Federal Government may retain copies of all proposals. Public release of information in any proposal submitted will be subject to existing statutory and regulatory requirements. If proprietary information is provided by an Applicant in a proposal, which constitutes a trade secret, commercial or financial information, it will be treated in confidence, to the extent permitted by law, provided that the proposal is clearly marked by the Applicant as follows:

(A) The following legend must appear on the title page of the proposal: This proposal contains information that shall not be disclosed outside the Federal Government and shall not be duplicated, used, or disclosed in whole or in part for any purpose other than evaluation of this proposal, unless authorized by law The Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract if award is made as a result of the submission of this proposal. The information subject to these restrictions are contained on all pages of the proposal except for pages *[insert page numbers or other identification of pages that contain no restricted information.]* (End of Legend); and

(B) The following legend must appear on each page of the proposal that contains information the Applicant wishes to protect: Use or disclosure of information contained on this sheet is subject to the restriction on the title page of this proposal.

d. 252.225-7973 Prohibition on the Procurement of Foreign-Made Unmanned Aircraft Systems-Representation. (DEVIATION 2020-00015)

(a) *Prohibition*. Section 848 of the National Defense Authorization Act for Fiscal Year 2020 (Pub. L. 116-92) prohibits DoD from using or procuring—

- (1) An unmanned aircraft system (UAS), or any related services or equipment, that-
 - (i) Is manufactured in the People's Republic of China or by an entity domiciled in the People's Republic of China;
 - (ii) Uses flight controllers, radios, data transmission devices, cameras, or gimbals manufactured in the People's Republic of China or by an entity domiciled in the People's Republic of China;
 - (iii) Uses a ground control system or operating software developed in the People's Republic of China or by an entity domiciled in the People's Republic of China; or
 - (iv) Uses network connectivity or data storage located in, or administered by an entity domiciled in the People's Republic of China; or
- (2) A system for the detection or identification of a UAS, or any related services or equipment, that is manufactured—
 - (i) In the People's Republic of China; or
 - (ii) By an entity domiciled in the People's Republic of China.
- (b) Representations. By submission of its offer, the Offeror represents that it will not provide or use-
 - (1) A UAS, as described in paragraph (a)(1) of this provision, in the performance of any contract, subcontract, or other contractual instrument resulting from this solicitation; and
 - (2) A system for the detection or identification of a UAS, as described in paragraph (a)(2) of this provision, in the performance of any contract, subcontract, or other contractual instrument resulting from this solicitation.

(End of provision)

10.0 AIR FORCE X21.B STTR TOPIC

10.1 AF21B-TCSO1 Phase I STTR Open Topic: Open Call for Innovative Defense-Related Dual-Purpose Technologies & Solutions

TECH FOCUS AREAS: Biotechnology Space; Quantum Sciences; Microelectronics; Directed Energy; Cybersecurity; Network Command, Control and Communications; Nuclear; Autonomy; Artificial Intelligence/Machine Learning; 5G; General Warfighting Requirements (GWR)

TECHNOLOGY AREAS: Ground Sea; Nuclear; Bio Medical; Sensors; Electronics; Chem Bio Defense; Space Platform; Materials; Information Systems; Air Platform; Battlespace

OBJECTIVE: This is a Department of the Air Force (DAF) open topic in partnership with AF Ventures; please see the CSO instructions for further details. A Phase I award will be completed over three months with a maximum award value of \$50,000. Phase II efforts may be awarded for a maximum period of 15 months with a maximum award value of \$750,000. The objective of this topic is to solicit innovative dual-purpose technologies or solutions, such as those not actively being requested by AF. Additionally, this topic is intended to incentivize small business commercialization of cutting-edge research while also strengthening the US industrial base. This topic is intended for companies that can complete a feasibility study and prototype validated concepts in accelerated Phase I and II schedules. This topic is aimed at later stage research and development efforts rather than "front-end" or basic R/R&D.

DESCRIPTION: DAF is a large and complex organization sharing many functions with the commercial sector. DAF is interested in exploring innovative technology domains with clear prospective or realized commercial value and their application to AF operations, i.e., dual-purpose technologies or solutions. It is not possible for AF to specifically solicit every potentially relevant technological area. Instead, this topic is intended to be an open call for specific ideas and technologies to include concepts or technologies not currently solicited. It is important potential solutions have a high probability of keeping pace with technological change. Therefore, it should be closely tied to prospective commercial offerings helping support the AF solution's development. This topic is meant to facilitate Government stakeholders' solution development rapidly and at low cost.

Proposals will be peer reviewed based on the criteria below. Selections will represent best value to the Government considering the following factors which are of equal importance:

- 1. The potential for Government or private sector commercialization application and benefits expected to accrue from commercialization. The SBC's record of commercializing STTR or other research and Phase II follow-on commitments for the subject research are evidence of commercialization potential.
- 2. The appropriateness, relevance, and specificity of an identified Defense Need. Adequacy of the proposed effort and its relationship to fulfilling the identified Defense Need.
- 3. The soundness, technical merit, and innovation of the proposed approach and its incremental progress toward fulfilling the identified Defense need. Includes the proposed Principal Investigators/Project Managers, supporting staff, and consultant qualifications to execute the proposed approach.

Price reasonableness and realism will be considered to the extent appropriate.

In summary, proposals should demonstrate a high probability of quickly identifying and realizing productmarket fit between an end user and the proposed solution. Though this topic is truly 'Open', i.e., agnostic of industry, technology, and problem area, the known interest areas for which potential AF Customers and/or funding have already been identified to facilitate streamlined customer discovery are broken out into broad AF S&T Strategic Capabilities found in Section 2.1.

PHASE I: Determine the scientific and technical merit and the feasibility of ideas that have commercial potential. Validate the product-market fit between the proposed solution and a potential USAF stakeholder and define a clear and immediately actionable research and development plan for adaptation of the proposed solution to meet a DAF customer need. This feasibility study should:

- 1. Determine the scientific and technical R/R&D to be accomplished on the non-Defense product to solve AF need;
- 2. Describe integration cost and feasibility with current mission-specific products; and
- 3. Describe if and how the demonstration can be used by other DoD or Governmental customers.

PHASE II: Continue RDT&E to develop, install, integrate or otherwise demonstrate a prototype system determined to be the most feasible solution during the Phase I feasibility study. This demonstration should focus specifically on:

1. Evaluating the proposed solution against the objectives and measurable key results as defined in the Phase I feasibility study.

2. Describing in detail how the solution differs from prospective non-defense commercial offerings in comparison to DAF counterparts and how it can be scaled for broader use.

3. A clear transition path for the proposed solution that takes into account input from all affected stakeholders,

including but not limited to: end users, engineering, sustainment, contracting, finance, legal, and cyber security.

- 4. Specific details about how the solution can integrate with other current and potential future solutions.
- 5. How the solution can be sustainable (i.e. overall supportability).
- 6. Clearly identify other specific DoD or governmental customers who want to use the solution.

PHASE III DUAL USE APPLICATIONS: The contractor will transition the solution to provide expanded mission capability to a broad range of potential Government and civilian users and alternate mission applications.

NOTES:

- a. Individual technical questions may be submitted to <u>support@afwerx.af.mil</u>. Additionally, telecoms will be held to address questions. Final call-in details will be provided at <u>https://afwerx.af.mil/SBIR.html</u>. Business-related questions may be addressed to the AF Contracting Officer, Kris Croake, at<u>kristina.croake@us.af.mil</u>.
- b. The AF does not award grants for STTR. Instead Phase I efforts are awarded as fixed price purchase orders. Phase II awards are executed as either firm-fixed-price FAR-based contracts or Other Transactions for Prototype under the authority of 10 USC 2371(b). Register in the System for Award Management (SAM), <u>https://www.sam.gov/</u>. Firms not registered in SAM.gov are ineligible for award. Verify the firm's "Purpose of Registration" is set to "I want to be able to bid on federal contracts or other procurement opportunities. I also want to be able to apply for grants, loans, and other financial assistance programs", NOT "I only want to apply for federal assistance opportunities like grants, loans, and other financial assistance programs." Firms registered to compete for grants federal assistance opportunities only at the time of proposal submission will not be considered for award. *Begin this process early, as it can take more than 30 days for registration to be issued or updated.*
- c. Verify the company's CAGE, company name, address information, DUNS, etc. prior to submission. If incorrect at submission, the proposal will not be considered. In the 25-slide technical volume, please include a SAM.gov screenshot including the CAGE, DUNS, and current business address, as well as confirmation the company is registered to compete for 'All Contracts'. It is the company's

responsibility to ensure proposal and SAM.gov data is consistent.

- d. If selected for negotiations and funding, purchase orders not signed and returned to the Contracting Office within 5 business days of receipt will not be awarded.
- e. The 'DoD SBIR/STTR Programs Funding Agreement Certification' form must be completed and included in the proposal submission https://www.afsbirsttr.af.mil/Portals/60/Pages/Phase%20I-II/SBIR-STTR-Phase-I-II-Funding%20Agreement%20Certification.pdf.
- f. The offeror is responsible for answering the STTR Cover Sheet and 'DoD SBIR/STTR Programs Funding Agreement Certification' questions accurately.
- g. While these are firm fixed price contracts, it is important companies include a cost volume in the proposal with sufficient fidelity to determine the proposed effort price fair and reasonable.
- h. Proposed technologies may be restricted under the International Traffic in Arms Regulation (ITAR) which controls defense-related materials/services import/export, or the Export Administration Regulation (EAR), controlling dual use items. Offerors must review the U.S. Munitions List, https://www.law.cornell.edu/cfr/text/22/121.1, and provide a tentative determination regarding applicability to the proposed efforts. If determined applicable, a certified DD Form 2345, Militarily Critical Technology Agreement, must be submitted with the proposal. Information regarding the application process and instructions for form completion are found at https://www.dla.mil/HQ/LogisticsOperations/Services/JCP/DD2345Instructions/.
- If subject to ITAR, involvement of foreign nationals may be restricted. "Foreign National" is defined in 22 CFR 120.16 as a natural person who is neither a lawful permanent resident (8 U.S.C. § 1101(a)(20)), nor a protected individual (8 U.S.C. § 1324b(a)(3)). It also includes foreign corporations, business associations, partnerships, trusts, societies, other entities/groups not incorporated/organized to do business in the United States, international organizations, foreign Governments, and their agencies/subdivisions. Offerors must identify foreign national team members and provide their countries of origin, visa/work permits possessed, and Work Plan tasks assigned. Additional information may be required during negotiations to verify eligibility. Even if eligible, participation may be restricted due to U.S. Export Control Laws.

NOTE: Export control compliance statements are not all-inclusive and do not remove submitters' liability to 1) comply with applicable ITAR/EAR export control restrictions or 2) inform the Government of potential export restrictions as efforts proceed.

REFERENCE: FitzGerald, B., Sander, A., & Parziale, J. (2016). Future Foundry: A New Strategic Approach to Military-Technical Advantage. Retrieved June 12, 2018, from <u>https://www.cnas.org/publications/reports/future-foundry</u>

KEYWORDS: open; other; disruptive; radical; dual-use; commercial; autonomy; advanced aircraft materials and manufacturing; novel acoustics techniques; subsystem; aircraft; and portfolio design tools; rapid mission planning for dense air environments and logistics efficiencies; command and control of air vehicles; robotic landing gear; large flotation devices; modular payload designs; air vehicle data networks and RF waveforms; sense and avoid architectures; algorithms; and sensors; electrical power storage; generation; charging; alternative onboard and ground-based electrical power generation; distributed electric propulsion control techniques

Attachment 2 Department of Defense (DoD) Small Business Innovation Research (SBIR)/ Small Business Technology Transfer (STTR) Program

CONTRACTOR CERTIFICATION REGARDING PROVISION OF PROHIBITED VIDEO SURVEILLANCE AND TELECOMMUNICATIONS SERVICES AND EQUIPMENT

Contractor's Name	
Company Name	
Office Tel #	
Mobile #	
Email	

Name of person authorized to sign:

Signature of person authorized:

Date:

The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

FAR CLAUSES INCORPORATED IN FULL TEXT:

52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (AUG 2020)

The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it "does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument" in the provision at 52.204-26, Covered Telecommunications Equipment or Services— Representation, or in paragraph (v) of the provision at 52.212-3, Offeror Representations and Certifications-Commercial Items.

(a) Definitions. As used in this provision-

Backhaul, covered telecommunications equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component have the meanings provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video

Surveillance Services or Equipment.

(b) *Prohibition*. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract or extending or renewing a contract with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) *Procedures*. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (*https://www.sam.gov*) for entities excluded from receiving federal awards for "covered telecommunications equipment or services."

(d) *Representations*. The Offeror represents that—

(1) It \Box will, \Box will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds "will" in paragraph (d)(1) of this section; and

(2) After conducting a reasonable inquiry, for purposes of this representation, the Offeror represents that—

It \Box does, \Box does not use covered telecommunications equipment or services, or use any equipment, system, or service that uses covered telecommunications equipment or services. The Offeror shall provide the additional disclosure information required at paragraph (e)(2) of this section if the Offeror responds "does" in

paragraph (d)(2) of this section.

(e) *Disclosures*. (1) Disclosure for the representation in paragraph (d)(1) of this provision. If the Offeror has responded "will" in the representation in paragraph (d)(1) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(ii) For covered services-

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the Product Service Code (PSC) of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(2) Disclosure for the representation in paragraph (d)(2) of this provision. If the Offeror has responded "does" in the representation in paragraph (d)(2) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii) For covered services-

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the PSC of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision. (End of provision)

52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

(a) Definitions. As used in this clause-

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (*e.g.*, connecting cell phones/towers to the core telephone network). Backhaul can be wireless (*e.g.*, microwave) or wired (*e.g.*, fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means—

(1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);

(2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

(3) Telecommunications or video surveillance services provided by such entities or using such equipment; or

(4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the Government of a covered foreign country.

Critical technology means—

(1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;

(2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled—

(i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or

(ii) For reasons relating to regional stability or surreptitious listening;

(3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);

(4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);

(5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (*e.g.*, connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (*e.g.*, voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) *Prohibition*. (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component or services as a substantial or essential component or services as a substantial or essential component of any system, or as critical technology as part of any system.

unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions*. This clause does not prohibit contractors from providing—

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) *Reporting requirement*. (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at *https://dibnet.dod.mil*. For indefinite delivery contracts, the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at *https://dibnet.dod.mil*.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

(i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications of covered telecommunications equipment or services.

(e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e), in

all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

52.204-26 COVERED TELECOMMUNICATIONS EQUIPMENT OR SERVICES-REPRESENTATION (DEC 2019)

(a) *Definitions*. As used in this provision, "covered telecommunications equipment or services" has the meaning provided in the clause 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) *Procedures*. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<u>https://www.sam.gov</u>) for entities excluded from receiving federal awards for "covered telecommunications equipment or services".

(c) *Representation.* The Offeror represents that it \Box does, \Box does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument.

(End of provision)

ATTACHMENT 3

Department of Defense (DoD) Small Business Innovation Research (SBIR) Program Small Business Technology Transfer (STTR) Program

DISCLOSURE OF OFFEROR'S OWNERSHIP OR CONTROL BY A FOREIGN GOVERNMENT

In accordance with DFARS provision 252.209-7002, an offeror is required to disclose, by completing this form (and adding additional pages, as necessary), any interest a foreign Government has in the offeror when that interest constitutes control by a foreign Government, as defined in DFARS provision 252.209-7002. If the offeror is a subsidiary, it is also required to disclose any reportable interest a foreign Government has in any entity that owns or controls the subsidiary, including reportable interest concerning the offeror's immediate parent, intermediate parents, and the ultimate parent.

DISCLOSURE			
Offeror's Point of Contact for Questions about	Name:		
Disclosure	Phone		
	Number:		
	Name:		
Offeror	Address:		
	Name:		
Entity Controlled by a Foreign Government	Address:		
Description of Foreign Government's Interest in the Offeror			
Foreign Government's Ownership Percentage in Offeror			
Identification of Foreign Government(s) with Ownership or Control			

DFARS 252.209-7002 Disclosure of Ownership or Control by a Foreign Government (JUN 2010)

(a) Definitions. As used in this provision-

(1) "Effectively owned or controlled" means that a foreign Government or any entity controlled by a foreign Government has the power, either directly or indirectly, whether exercised or exercisable, to control the election, appointment, or tenure of the Offeror's officers or a majority of the Offeror's board of directors by any means, e.g., ownership, contract, or operation of law (or equivalent power for unincorporated organizations).

(2) "Entity controlled by a foreign Government"-

(i) Means-

(A) Any domestic or foreign organization or corporation that is effectively owned or controlled by a foreign Government; or

(B) Any individual acting on behalf of a foreign Government.

(ii) Does not include an organization or corporation that is owned, but is not controlled, either directly or indirectly, by a foreign Government if the ownership of that organization or corporation by that foreign Government was effective before October 23, 1992.

(3) "Foreign Government" includes the state and the Government of any country (other than the United States and its outlying areas) as well as any political subdivision, agency, or instrumentality thereof.

(4) "Proscribed information" means-

(i) Top Secret information;

(ii) Communications security (COMSEC) material, excluding controlled cryptographicitems when unkeyed or utilized with unclassified keys;

(iii) Restricted Data as defined in the U.S. Atomic Energy Act of 1954, as amended;

- (iv) Special Access Program (SAP) information; or
- (v) Sensitive Compartmented Information (SCI).

(b) Prohibition on award. No contract under a national security program may be awarded to an entity controlled by a foreign Government if that entity requires access to proscribed information to perform the contract, unless the Secretary of Defense or a designee has waived application of 10 U.S.C.2536(a).

(c) Disclosure. The Offeror shall disclose any interest a foreign Government has in the Offeror when that interest constitutes control by a foreign Government as defined in this provision. If the Offeror is a subsidiary, it shall also disclose any reportable interest a foreign Government has in any entity that owns or controls the subsidiary, including reportable interest concerning the Offeror's immediate parent, intermediate parents, and the ultimate parent. Use separate paper as needed, and provide the information in the following format:

<u>Offeror's Point of Contact for Questions about Disclosure</u> (Name and Phone Number with Country Code, City Code and Area Code, as applicable)

Name and Address of Offeror

Name and Address of Entity Controlled by a Foreign Government

Description of Interest, Ownership Percentage, and Identification of Foreign Government

(End of provision)