IARPA
BROAD AGENCY ANNOUNCEMENT
IARPA-BAA-22-01

Human Interpretable Attribution of Text using Underlying Structure (HIATUS) Program

IARPA-BAA-22-01

Release Date:

February 25, 2022

Amendment 001: April 04, 2022

ALL CHANGES FOR AMENDMENT 001 ARE HIGHLIGHTED IN YELLOW.
# BROAD AGENCY ANNOUNCEMENT: IARPA-BAA-22-01

## HIATUS Program

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GENERAL INFORMATION

This notice constitutes a Broad Agency Announcement (BAA) and sets forth research of interest in the area of authorship attribution and privacy. The solicitation process will follow Federal Acquisition Regulation (FAR) Part 35, Research and Development Contracting, as supplemented with additional information included in this notice. Awards based on responses to this BAA will be considered the result of full and open competition.

1. Federal Agency Name – Office of the Director of National Intelligence (ODNI)/Intelligence Advanced Research Projects Activity (IARPA)

2. Funding Opportunity Title – Human Interpretable Attribution of Text using Underlying Structure (HIATUS) Program

3. Announcement Type – Initial

4. Funding Opportunity Number – IARPA-BAA-22-01

5. Catalog of Federal Domestic Assistance Numbers (CFDA) – Not applicable

6. Questions
Submit questions on administrative, technical, or contractual issues by email to DNI-IARPA-BAA-22-01@iarpa.gov. All requests must include the full name and affiliation of a point of contact. Do not send questions with proprietary content. A consolidated Question and Answer response will be posted on SAM.gov for Contract Opportunities website (https://SAM.gov/) and linked from the IARPA website (https://www.iarpa.gov/index.php/research-programs/hiatus). No answer will go directly to the submitter. IARPA will accept questions until March 18, 2022 @ 5:00 PM EST.

7. Dates
7.1 Posting Date: February 25, 2022
7.2 Proposal Due Date for Initial Round of Selections: April 18, 2022 @ 4:00 PM EST
7.3 BAA Closing Date: April 29, 2022 4:00 PM EST

8. Anticipated individual awards – Multiple awards anticipated

9. Types of instruments that may be awarded – Procurement Contracts and Other Transactions ¹

10. Agency Points of Contact
ATTN: IARPA-BAA-22-01
Office of the Director of National Intelligence
Intelligence Advanced Research Projects Activity
Washington, DC 20511
Electronic mail: DNI-IARPA-BAA-22-01@iarpa.gov

11. Program Manager (PM) – Dr. Timothy McKinnon


¹ Procurement Contract: This is a standard government contract that follows the processes, format and terms and conditions as outlined in the Federal Acquisition Regulations (FAR) and supplementing Agency specific regulations.

Other Transaction Authority: Agreements generally are not subject to the federal laws and regulations governing procurement contracts and thus are not required to comply with the Federal Acquisition Regulation (FAR), its supplements, or laws that are limited in applicability to procurement contracts. They may be used with non-traditional contractors under certain circumstances.
13. **BAA Summary** – The HIATUS program seeks to develop novel human-useable systems for attributing authorship and protecting author privacy through identification and leveraging of explainable linguistic fingerprints. HIATUS Performers will focus on three task areas (TAs). The program will develop novel methods to generate a stylistic feature space in which each author is represented in stable fashion across diverse text types (TA1). Using this feature space, the program will also create human-interpretable algorithms for authorship attribution (TA2) and author privacy (TA3). Technical approaches must scale to other languages.

**SECTION 1: FUNDING OPPORTUNITY DESCRIPTION**

IARPA often selects its research efforts through the BAA process. The use of a BAA solicitation allows a wide range of innovative ideas and concepts. The BAA will appear under Contract Opportunities on https://sam.gov as well as the IARPA website at http://www.iarpa.gov. The following information is for those wishing to respond to this Program BAA.

This BAA (IARPA-BAA-22-01) is for the Human Interpretable Attribution of Text using Underlying Structure (HIATUS) Program. IARPA seeks innovative solutions for the HIATUS Program which is envisioned to be a 42-month effort, beginning approximately September 30, 2022 through March 29, 2026.

1.A. **Program Overview**

Authorship attribution is an important capability for the Intelligence Community (IC), facilitating efforts to understand and combat increasingly sophisticated malicious information campaigns online, fight human trafficking, identify counterintelligence risks, etc. Authorship privacy (also known as “authorship obfuscation”) refers to technology and methods for modifying text to remove features predictive of a specific author. Authorship privacy technologies have a wide variety of uses including protection of individuals and groups whose writing, if attributed, could place them in personal danger.

The HIATUS program seeks to develop novel human-useable systems for attributing authorship and protecting author privacy through identification and leveraging of explainable linguistic fingerprints. HIATUS will create technologies that automatically identify and generate verifiable ‘linguistic fingerprints’ of individual authors (both human and machine), enabling authorship attribution and privacy. Successful systems will perform robustly for diverse authors, topic domains, genres and languages.\(^2\) The overall vision of the program is shown in Figure 1.

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2 The term ‘genre’ refers here to differences in text based on audience, purpose, activity, and related factors.
HIATUS addresses the limitations in currently available authorship attribution and authorship privacy techniques. Manual text attribution is time-consuming and requires highly specialized expertise. State-of-the-art authorship attribution systems built on powerful neural language models are far too complex for humans to interpret or audit, undermining user trust. Older computational approaches (Logistic Regression, Support Vector Machines, etc.) expose model rationale to a greater extent than neural models, but they rely on text preprocessing schemes that place a priori limits on type and quantity of stylistic-linguistic features extracted from text and require voluminous writing samples from each author. See Figure 2 for a graphical representation of this trilemma. HIATUS addresses these limitations by developing automated, human interpretable systems that maximize use of the linguistic feature space and provide robust performance across diverse genres, topic domains and languages.

Figure 2: The HIATUS Trilemma: Categories of author attribution and their strengths and weaknesses. HIATUS aims to minimize human effort, maximally leverage the grammatical feature space, and furnish human-interpretable feedback for trust and verification of system behavior.

High performing authorship attribution/privacy systems are of limited value if their behavior cannot be trusted and validated by human users. Explainable Natural Language Processing (NLP) techniques to date have relied heavily on delineating spans of input text that a model ‘attends’ to when predicting a label. Such explanations do not identify actual linguistic features or structures (syntactic, morphological, discourse-level, etc.) A central goal of the HIATUS program is to provide human-interpretable representations of the stylistic features in text. Offerors shall propose innovative techniques in explainable NLP that achieve this goal and shall work with a Test & Evaluation (T&E) Team to develop and implement methods and protocols to evaluate explanations of system behavior.

The HIATUS program casts attribution and privacy as different aspects of the same underlying challenge: understanding author-level stylistic variation by elucidating stable identifiers of individual authors across diverse types of text. The program fully embraces authorship attribution/privacy as an adversarial machine learning problem. Throughout the development and testing lifecycle, attribution and privacy algorithms are placed in constant competition (Figure 3 shows the HIATUS evaluation workflow). At the beginning of the program, performers will be provided with a software evaluation harness developed by the T&E team, and
they shall implement team-internal competition between attribution and privacy systems to ensure optimal system performance\(^3\). The same software testing harness will be used at official evaluation milestones, where systems are submitted to the T&E Team for blind evaluation against opponent team systems on a sequestered dataset comprising documents representing diverse text and author characteristics.

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\(^3\) Systems developed by one performer will not be shared with other performers, only submitted to T&E for official evaluations.
The HIATUS Program will address the technical needs and challenges outlined above by pursuing research into stylometric algorithms, domain adaptation, text generation, and explainable NLP. Performers will conduct research to develop robust, high-throughput software systems that generate representations of text in stylistic feature space, perform attribution and text modifications to ensure document privacy. Systems must be capable of performing such functions over an array of document types, including texts representing diverse genres, domains, languages and author backgrounds. The delivered interim and final systems will be evaluated by the T&E Team according to a set of program metric targets detailed in section 1.F. below.

A robust data collection initiative will be part of the HIATUS Program to assemble diverse text types for use in Research and Development (R&D) for algorithm training, and in T&E for comparing the algorithm performance against ground truth. The T&E Team will conduct dataset development activities throughout the life of the program using Institutional Review Board (IRB)-approved Human Subject Research (HSR) protocols. A portion of this data will be made available to Performers for R&D. In addition, Performers will be required to conduct their own supplemental IRB-approved dataset collections. At the conclusion of each program phase, Performers shall make all datasets used for system development available to the T&E Team for the purpose of distribution to other Performers. Additional details on program data can be found in section 1.D. Program Data below.

The HIATUS Program will pursue rigorous and comprehensive independent T&E to ensure that research outcomes are well characterized, deliverables are aligned with program objectives, and algorithm performance is measured across the full range of data conditions. T&E activities will not only inform Government stakeholders on HIATUS research progress but will also serve as valuable feedback to the Performers to improve their research approaches, algorithm training practices, and system development. The HIATUS Program will work closely with Government leaders in Human Language Technologies (HLT) to continually refine and improve T&E methodologies.

1.A.1. Technical Challenges and Objectives

Offerors shall address three technical TAs to meet the goal of HIATUS to develop novel, human-interpretable, author attribution and privacy systems. Offerors must propose novel approaches to each of these TAs, and if selected as a Performer, Performers will be required to create an end-to-end technology that incorporates software components from each TA.
**Feature Space Generation (TA1):** The goal of TA1 is to research and develop an encoder that projects text into an optimized stylistic feature space wherein observations (texts) from the same class (author) are projected near one another (and far from those of other authors), regardless of non-authorial properties (genres, domains, languages and author backgrounds). Successful approaches must utilize features that are both predictive of authorship across texts of diverse types, as well as features that are predictive of authorship within specific topic domains or genres only. Successful representations shall also enable segmentation of machine- vs. human-generated documents. Successful technical approaches will take both feature types into account. The TA1 deliverable will be evaluated by the T&E Team using a rank and retrieval task as described in section 1.F. below.

**Authorship attribution (TA2):** The goal of TA2 is to research and develop a system that will successfully identify unique authors within a corpus using the stylistic characteristics of author text contained within. The TA2 software deliverable must leverage representations from the TA1 stylistic encoder to determine whether two or more documents in a collection were produced by the same author. Systems will be evaluated using an identification task as described in section 1.F. The TA2 deliverable will be evaluated by the T&E Team using an open set search task.

**Authorship privacy (TA3):** The goal of TA3 is to research and develop a system that will successfully modify aspects of a document that provide evidence of authorship without altering non-authorial features such as the fluency and meaning.⁴ For the purposes of analysis, the T&E Team shall develop a clear set of criteria to evaluate TA3 system output. These criteria shall be announced at program kickoff, but Offerors may assume criteria like those found in the machine-generated text and paraphrase generation literature. One important additional aspect of fluency is stylistic self-consistency: different parts of the same modified document, or multiple modified documents from the same author, should not look like they were produced by different authors; they should be stylistically consistent with one another (though stylistically distinct from their original author). To achieve these objectives, technical approaches to TA3 should leverage ‘upstream’ information from TA1 and TA2 components e.g., to isolate stylistic features in the document and gauge how specific modifications of the text affect the document’s location in stylistic feature space. The success of TA3 systems will be measured by the ability to thwart attribution of a modified document while ensuring all modifications preserve that document’s original fluency and meaning. Ability to thwart attribution will be measured by running TA3 system outputs through opponents’ TA2 systems. Both human and automated methods will be used to assess preservation of fluency and meaning. This task is described in section 1.F. below.

**System explainability (TA2 & TA3):** Systems developed in both TA2 and TA3 must provide human-interpretable feedback explaining why specific documents likely are (or are not) attributed to the same author. Offerors must propose novel explainable NLP techniques to address this goal, and methods to evaluate this approach that are potentially generalizable to other Performer approaches, including justifiable metrics for Phase 2 and Phase 3. T&E Teams will finalize protocol for evaluating explanations in Phase 1 and implement this protocol in evaluations during subsequent phases.

Figure 5 provides an example of how the TA1, TA2 and TA3 software components may ultimately fit together into an end-to-end authorship attribution and privacy system. T&E Teams will design component interfaces to ensure that systems are modularized, allowing for addition or removal of components to meet government transition needs.

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⁴ Fluency and meaning are general terms encompassing a variety of considerations. For example, preservation of meaning may include faithfulness to lexical semantics, propositional semantics, pragmatic felicity, etc. Fluency refers to grammatical well-formedness with respect to a putative author’s mental grammar as well as genre-appropriateness.
1.A.2. Program Phases

The HIATUS program is anticipated to be a 3.5-year (42 month) effort, comprised of three (3) Phases. All three (3) Phases are being solicited under this BAA. Phase 1 will be 18 months in duration, Phase 2 will be 12 months, and Phase 3 will be 12 months. Each phase will encompass the three Task Areas (TAs) described above.

Offerors are required to propose to all three Phases and all Task Areas of the Program under this BAA. Proposals that submit to less than the three Task Areas or less than three Phases per Task Area will be considered non-compliant.

HIATUS aims to create systems that can accomplish authorship attribution and privacy on the vast array of text-types (differing in topic, genre, language, length, author background, etc.) encountered by IC stakeholders in actual operational scenarios. Program phases are designed to test Performer systems against increasingly challenging data scenarios. The following paragraphs describe the phases and Table 1 summarizes and distinguishes the differences among the program phases.

Table 1: HIATUS Program Phases

<table>
<thead>
<tr>
<th>Area</th>
<th>Phase 1 (18 months)</th>
<th>Phase 2 (12 months)</th>
<th>Phase 3 (12 months)</th>
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<tbody>
<tr>
<td>Number of Government research datasets</td>
<td>20+ from diverse genres and domains</td>
<td>20+ additional corpora per language from diverse genres and domains</td>
<td>20+ additional corpora per language from diverse genres and domains</td>
</tr>
<tr>
<td>Query document</td>
<td>long texts are &gt;700 words</td>
<td>Medium texts are estimated at 100-200 words on average</td>
<td>Short texts are estimated at 20-30 words on average</td>
</tr>
<tr>
<td>Number of ground truth documents presented to Performer system during evaluation as queries&lt;sup&gt;5&lt;/sup&gt;</td>
<td>1-3 per author</td>
<td>3-5 per author</td>
<td>7-9 per author</td>
</tr>
</tbody>
</table>

<sup>5</sup> Query documents may reflect different genres and domains.
<table>
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<tr>
<th>Evaluation Language(s)</th>
<th>English</th>
<th>English + Phase 2 surprise language (announced at phase kickoff)</th>
<th>English + Phase 2 + two new Phase 3 surprise languages (announced at phase kickoff)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-authorship</td>
<td>Single author per document</td>
<td>Single author per document</td>
<td>Multi-author for some larger documents</td>
</tr>
<tr>
<td>Human feedback for privacy</td>
<td>Two conditions: human-in-the-loop (HITL) and fully automatic</td>
<td>Same as Phase 1 with reduction in allowed human effort for HITL condition</td>
<td>Same as Phase 2 with reduction in allowed human effort for HITL condition</td>
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Within each program phase, there are three evaluation milestones at which Performers submit software deliverables to the T&E team for evaluation against hidden datasets. The first of these three milestones (1.1, 2.1, and 3.1) evaluates the quality of Performer TA1 software deliverables on a rank and retrieval task. The remaining two milestones (1.2, 1.3, 2.2, 2.3, 3.2, 3.3) are mixed open search/rank and retrieval tasks that simultaneously evaluate the quality of Performer TA2 and TA3 software deliverables (see Figure 6).6

Each evaluation will be performed on sequestered datasets using Performer-submitted containerized software components.8 Aspects of evaluation that involve human adjudication or feedback will be performed by the T&E Team.

In Phase 1, IARPA will provide development datasets and an evaluation harness developed by the T&E team. The same harness will be used for testing and evaluation of Performer-submitted software components at each subsequent evaluation milestone. The purpose of the evaluation harness is to enable Performer-site training, testing and competition between attribution and privacy components. IARPA will also furnish to Performers documentation of the program Application Programming Interface (API)

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6 In Phase 1, a ‘dry run’ evaluation milestone allows performers an opportunity to test out their TA2 systems. This risk reduction exercise is indicated by an asterisk in the timeline figure.

7 See 1.G.2. Program Milestone, Waypoint, and Deliverables Timeline for a detailed timeline of evaluation milestones

8 Systems shall be permitted to ‘fine-tune’ on evaluation corpora, but ground-truth author labels will not be exposed to systems for the purpose of fine-tuning.
developed by the HIATUS T&E Team. This Government Furnished Information (GFI) will facilitate productive and useful research in a consistent and standardized manner.

Datasets developed by the T&E Team for each program phase will be partitioned into development and evaluation datasets. Although the T&E Team will deliver some development data, Performers are expected to create their own development datasets aggregated from open source or self-generated and using creative techniques and heuristics to infer authorship labelling. These datasets must be submitted to the T&E Team at the conclusion of each phase, combined into a single dataset, such that it is releasable to all Performers as discussed in section 1.D.1.2.

Evaluation of Performer progress towards program metrics will primarily utilize evaluation datasets that are sequestered. A portion of these datasets will be shared with Performers after each evaluation to enable Performers to conduct error analyses. The baseline API provided in Phase 1 will standardize system and subcomponent design and streamline comparative evaluations. More details on the datasets are available in section 1.D. and more details on the API are available in section 1.G.3.1.

1.A.2.1. Phase 1

The goal of Phase 1 is to develop novel human-useable systems for author fingerprinting, attribution, and privacy. Attribution systems developed during this phase should succeed at performing rank and retrieval (TA1) and open search (TA2) tasks using 1-3 single-author (human or machine), large-length query documents (>700 words) in English. Systems will use query documents to find other documents from the same author in a corpus comprising documents from 20+ domains and genres. Performers shall also deliver author privacy (TA3) systems that successfully remove author-identifying features from large-length English documents, thereby effectively thwarting authorship attribution systems. TA3 systems must function both with and without human feedback.

Throughout the first phase of the program Performer research will focus on foundational explorations and investigations into different approaches, theories, and concepts to establish the building blocks of their HIATUS system(s). During this time, Performers and the T&E Team will collaborate on a protocol to evaluate human explainability for TA2 and assessment of fluency and sense preservation in TA3. This protocol will be implemented in Phases 2 and 3. As a precursor to this collaboration, Proposals in response to this BAA must articulate a novel approach to the explainability challenge, addressing how their HIATUS systems would furnish explanations to users allowing them to understand and verify system behavior. Two categories of an end user are envisioned: a non-expert analyst using the system explanations to understand system rationale, flag spurious attributions, gauge attribution confidence, etc.; and an expert with sophisticated linguistic knowledge conducting highly nuanced authorship analysis. Offerors must be explicit in their proposals about how their explanatory techniques could be evaluated.

With the aims of mitigating risk and investigating competing approaches, Performers are encouraged to pursue several novel approaches under the same subtopic. Performers will compare and contrast various approaches using Government furnished development datasets as well as datasets collected by teams internally.

1.A.2.2. Phase 2

The goal of Phase 2 is for Performers to extend the capabilities of author fingerprinting, attribution and privacy systems developed in Phase 1. Attribution systems should succeed at performing rank and retrieval (TA1) and open search (TA2) tasks using 3-5 single-author (human or machine), medium-length query documents (~100-200 words). In this phase, performer systems will be evaluated using separate corpora in English and a second target language which will be announced at the phase kick-off. Systems will use query documents to find other documents from the same author in a corpus comprising documents from 40+ domains and genres. It is expected that performer systems will be required to perform cross-/multi-lingual attribution by finding documents created by the same author in multiple languages, given a query document
Performers shall deliver author privacy (TA3) systems that successfully remove author-identifying features from long and medium-length documents in English and the Phase 2 target language. In addition to performing attribution, TA2 systems will furnish to the human user feedback explaining system rationale for authorship attributions. TA3 systems must function both with and without human feedback, but human effort must be limited.

1.A.2.3. Phase 3

The goal of Phase 3 is for Performers to further extend author fingerprinting, attribution and privacy capabilities developed in Phases 1 and 2. Attribution systems should succeed at performing rank and retrieval (TA1) and open search (TA2) tasks using 7-9 human or machine-authored, short-length query documents (~20-30 words) in English, the Phase 2 target language, and the two new target languages to be announced at the phase kick-off, with some documents produced by multiple authors. Systems will use query documents to find other documents from the same author in a corpus comprising documents from 60+ domains and genres. As in Phase 2, cross-/multi-lingual attribution may be required. Performers shall deliver author privacy (TA3) systems that successfully remove author-identifying features from large, medium, and short-length documents in English and the identified target languages. TA2 systems will furnish improved feedback explaining system rationale for authorship attributions. TA3 systems must function both with and without human feedback, but human effort must be minimal. Texts from the same author modified by TA3 should exhibit a high level of stylistic self-consistency.

1.B. Team Expertise

Collaborative efforts and teaming among Offerors are highly encouraged. It is anticipated that teams will be multidisciplinary and should include expertise in one or more of the disciplines listed below. This list is included only to provide guidance for the Offerors; satisfying all the areas of technical expertise below is not a requirement for selection and unconventional or innovative team expertise may be needed based on the proposed research. Proposals should include a description and the mix of skills and staffing that the Offeror determines will be necessary to carry out the proposed research and achieve program metrics.

- Adversarial machine learning
- Authorship attribution
- Data visualization
- Deep metric learning
- Distributed processing
- Domain adaptation
- Explainable NLP
- Forensic linguistics
- Human computation
- Information retrieval
- Language embeddings
- Software engineering
- Style transfer
- Systems engineering
- Systems integration
- Text dataset development
- Theoretical linguistics
Although the HIATUS program is focused on computational approaches, teaming schemes that include meaningful collaborations with forensic linguists and practitioners of non-computational text attribution are highly encouraged.

1.C. **Program Scope and Limitations**

Proposals shall explicitly address all the following:

- **Underlying theory:** Proposed strategies to meet program-specified metrics must have firm theoretical bases that are described with enough detail that reviewers will be able to assess the viability of the approaches. Proposals shall properly describe and reference previous work upon which their approach is founded.

- **Research & Development approach:** Proposals shall describe the technical approach to meeting program metrics.

- **Technical risks:** Proposals shall identify technical risks and proposed mitigation strategies for each identified risk.

- **Software development:** Proposals shall describe the approach to software architecture, modularization, and integration.

The following areas of research are **out of scope** for the HIATUS program:

- Research that does not have strong theoretical and experimental foundations.

- Approaches to authorship attribution and privacy that rely on non-text features (e.g., timestamps, network structure, multimedia). The program is limited in scope to text-only approaches to attribution and privacy.

- Approaches to authorship attribution or privacy that rely exclusively on predetermined sets of linguistic features selected by humans

- Development of hardware.

- Research that utilizes proprietary data that are not made available to other Performers.

- Approaches that consist merely of integrating currently existing software.

When creating development datasets, Performers are permitted to use non-text features to establish ground-truth and near-ground-truth authorship labels for text documents collected from open source. However, testing corpora will each comprise a collection of text documents in which metadata is concealed from Performers at test time.

Delivered software will be evaluated by the T&E Team on sequestered evaluation datasets. During each performance period, Performers will build software systems that will be run and evaluated by the T&E Team. Testing protocols do not allow for expert operators, but limited human-in-the-loop operation is permitted for privacy systems and will be carried out by the T&E Team. Notwithstanding testing and evaluation tasks that explicitly require human feedback, systems must be fully automated. Systems or algorithms that have been trained using human-in-the-loop methods may be submitted, provided they run autonomously.

1.D. **Program Data**

The HIATUS program seeks to simulate the challenge of attribution and privacy in real-world circumstances. Common datasets used for modeling authorship have one or more of the following shortcomings that render them inadequate for the development of robust attribution and privacy systems:

1. Closed world: Finite known set of authors
2. Limited genre
3. Limited topic domains
4. Lack of cross-topic/genre authorship: samples of the same author across diverse text types are limited or absent
5. Lack of author diversity: authors derive from similar backgrounds or demographics
6. Lack of linguistic diversity: focus on single language or dialect

The HIATUS dataset is an open world collection (i.e., unknown number of authors) that is both massively multi-genre and multi-topic. Ground-truth authors represent diverse demographic and linguistic backgrounds. To ensure sufficient data are provided for system development and statistically reliable evaluations, the program T&E Team will implement a robust and explicit data collection workflow.

The program will include two types of data – Development Data and Evaluation Data. Development data will be utilized by Performers, as they see fit, to conduct research, development, error analysis, and algorithm training. Evaluation data will be explicitly excluded from any algorithm training approaches and will be used by the T&E Team for performance evaluations of subcomponents, modules, and systems measured against the HIATUS program metrics. A summary of HIATUS datasets across the entire life of the program is included in Table 2.

Offerors shall include in their proposals the cost and resources to acquire, implement, and maintain the computing infrastructure necessary to carry out all work described in their proposals, including dataset development.

### Table 2: HIATUS Program Datasets

| Phase | Type | Origin | Dataset | Month | # Ground-truth-labelled Human Authors | # Ground-truth-labelled Machine Authors | # Corpora
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Development (English)</td>
<td>T&amp;E</td>
<td>HRS1</td>
<td>1</td>
<td>50 Est.</td>
<td>50 Est.</td>
<td>5+ corpora Est.</td>
</tr>
<tr>
<td>1</td>
<td>Evaluation (English)</td>
<td>T&amp;E</td>
<td>HTS1</td>
<td>5</td>
<td>200 Est.</td>
<td>200 Est.</td>
<td>20+ corpora Est.</td>
</tr>
<tr>
<td>1</td>
<td>Development (English)</td>
<td>Performer</td>
<td>HRC1</td>
<td>Ongoing</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>2</td>
<td>Development (Phase 2 target Language)</td>
<td>T&amp;E</td>
<td>HRS2</td>
<td>18 (phase kickoff)</td>
<td>50 Est.</td>
<td>50 Est.</td>
<td>5+ corpora per language Est.</td>
</tr>
<tr>
<td>2</td>
<td>Evaluation (Phase 2 target Language)</td>
<td>T&amp;E</td>
<td>HTS2</td>
<td>21</td>
<td>200 Est.</td>
<td>200 Est.</td>
<td>20+ corpora per language Est.</td>
</tr>
<tr>
<td>2</td>
<td>Development (Phase 2 Target Language)</td>
<td>Performer</td>
<td>HRC2</td>
<td>Ongoing</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
<tr>
<td>2</td>
<td>Development (English)</td>
<td>T&amp;E</td>
<td>HRS2</td>
<td>18 (phase kickoff)</td>
<td>50 Est.</td>
<td>50 Est.</td>
<td>5+ corpora per language Est.</td>
</tr>
</tbody>
</table>

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HRS = HIATUS Research Set, HTS = HIATUS Test Set, HRC = HIATUS Researcher Collection

9 Minimum number of unique individuals in the probe set with mated entries in the dataset gallery.

10 Corpora contain an unknown (and often large) number of anonymous authors.
1.D.1. Development Data

Development data will be utilized by Performers, as they see fit, to conduct internal research, development, error analysis, and algorithm training. Each Performer is anticipated to have a unique technical solution to the HIATUS challenge, and accordingly may require different development data depending on their approach.

Proposals must specify the development data needed to carry out the proposed research and what data characteristics are necessary for the Offeror’s approach(es) to be successful at meeting program objectives. Additionally, as part of Volume 1 (Technical & Management Proposal) Section 3 (Detailed Proposal), Offerors should present a dataset development plan detailing how the Offeror intends to obtain these data. Offerors’ unique data needs in a particular technical area should not be interpreted as requirements input into the program’s T&E data collections, but part of a comprehensive research approach that communicates a possible path towards meeting HIATUS program objectives.

There will be three types of development data used in the HIATUS program:

- **Government Research and Test Sets** – Datasets collected, annotated, and curated by the T&E Team. Most of these data will be sequestered, but a small portion will be provided to Performers for R&D (prior to evaluation) and error analysis (following evaluation). Performers should anticipate receiving less of this data in Phases 2 and 3.

• **External Data Sources** – Data obtained by Performers that are available from third parties or that have been collected by a Performer outside of HIATUS shall be delivered with sufficient rights to allow the United States Government (USG) and the T&E Team to share this data with all Performers for their use in connection with the HIATUS Program.

1.D.1.1. **Government Research and Test Sets**

The T&E Team will develop HIATUS Research Sets (HRS) and HIATUS Test Sets (HTS) throughout the program. The Government will release HRS to Performers to facilitate system development. HTS will be sequestered for the purpose of blind testing and evaluation, though small portions of this dataset may be released for the purpose of error analysis following official evaluation milestones. The volume of documents in the HTS is anticipated to be much larger than the HRS.

See Table 2 for a preliminary summary of all HRS datasets. These datasets will include numerous ‘haystacks’ i.e., collections of documents drawn from various sources of text content from the internet and elsewhere. A haystack may, for example, consist of a collection of posts from an online hobbyist forum. Each haystack will consist only of text documents. The T&E Team will implement filtering to remove Personally Identifiable Information (PII) and other metadata (e.g., timestamps, network data). The haystack portion of datasets may incidentally contain metadata, such as information within the body of a document indicating that two or more documents are authored by the same individual, but Performers are prohibited from using such metadata in their systems.

The T&E Team will augment the haystack collection with human-authored and machine-authored ground-truth-labelled documents. Human-authored documents will be elicited from individuals contracted by the T&E Team to author documents for specific haystacks. The T&E Team will vet human authors and the text content they produce to verify contributions are appropriate to and not otherwise aberrant to the target haystack. Machine-authored documents will be produced by a variety of text-generation models selected by the T&E Team and fine-tuned to the target haystack. Each ground-truth-labelled author may be asked to contribute to one or more target haystacks. There will be no overlap between the ground-truth-labelled authors included in the HRS and HTS datasets.

The T&E Team will continuously develop HRS and HTS data sets throughout the program, altering the characteristics of the datasets they develop to meet evaluation goals. The specifics of these collections will be determined by the T&E Team during the program, but for purposes of this BAA, Offerors can assume the following characteristics within each of the HRS datasets:

- HTS and HRS will be a collection of dozens of haystack corpora collected from open source
- Each haystack originates from a unique source (e.g., comment posts from the same web domain)
- Documents from the same haystack will tend to be from similar genres and topic domains, but this is not necessarily the case
- HTS documents will not be provided with labels for authorship or handle at test time, nor will any additional metadata be included other than non-informative labels (e.g., numeric codes) indicating the haystack to which a document belongs
- HTS and HRS contain a subset of documents labelled for ground truth authorship
- Documents will be normalized using methods that ensure consistency across sources, but minimize loss of document characteristics that are potentially predictive of author

1.D.1.2. **Researcher Collections**

As indicated in the previous section, the Government will provide limited datasets (HRS) to Performers for system development. Each Performer is required to plan and carry out internal authorship dataset development efforts. To minimize the risk of system biases, Performers must plan and implement steps to ensure that datasets include demographically diverse author populations. Datasets assembled by Performers are referred to as HIATUS Researcher Collections (HRC). Performers are required to submit their most
current HRC to the Government in a standard format at each evaluation milestone. Performers are permitted
to withhold their internal HRC from other Performers until the end of each program phase. At the conclusion
of Phases 1 and 2, the T&E Team will combine each Performer’s HRC into a unified collection and will
release this collection to all Performers. Sharing of the combined HRC helps ensure that phase-over-phase
improvement in performance on evaluation tasks is attributable to a team’s superior technical approach
rather than a greater accrual of development data resources.

As part of their proposal, each Offeror should provide a data collection plan and describe how their HRC
will be used in R&D. Performers cannot control the quality and depth of data from other teams’ collections,
but they can ensure their own collections meet or exceed their own research needs. Details regarding text
normalization techniques will be released to Performers by the T&E Team during kickoff. Normalization
techniques will provide a consistent document format across all datasets while minimizing removal or
modification of author-predictive text attributes.

Performers will be responsible for annotating all HRC data for their R&D needs. All annotation data are to
be delivered to the Government regardless of whether they are developed after the collection or after initial
delivery of the HRC dataset. Annotation methodologies should be consistent with current research best
practices to facilitate supervised machine learning algorithm development.

All data collected, curated, annotated, synthesized, or generated by Performers created under the HIATUS
program for R&D or any other purpose will be provided to the Government as Deliverables. Software tools
or algorithms created for the purpose of data annotation, synthesis, or generation under the HIATUS
program for R&D purposes or otherwise shall also be provided to the Government as Deliverables with
unlimited rights (but will consider GPR in limited circumstances) in accordance with FAR 52.227-14, to
allow use by the USG. IARPA reserves the right to require delivery of incomplete or partially annotated
versions of HRC datasets with 30 days’ advance notice.

1.D.1.3. External Data Sources

Performers may utilize external datasets in addition to HRS and HRC datasets. External data are data
obtained by Performers that are available from third parties or that have been collected by the Performer
outside of the HIATUS program. An example of a third-party dataset would be an authorship attribution
dataset, collected by a university under an IRB-approved HSR protocol, that has been approved by the
dataset owner for release to the research community. Data collected by a Performer under a different
program are considered external data, even if the other program’s data collection was Government-
sponsored.

All external datasets must be approved for use in the HIATUS program by IARPA during contract
performance, in accordance with HSR and applicable privacy policies, statutes, and regulations.

Performers may not use proprietary datasets unless these datasets are made available to all R&D Performers
and the T&E Team in the HIATUS program. Public release of proprietary datasets is not a requirement;
however, release for use within the HIATUS program is required. Moreover, for any dataset not collected
under the scope of the HIATUS program, Performers must provide the Government with an accounting of
all resources used and sources from which data are drawn and describe how the data will be used for
development, testing, and training of algorithms.

1.D.2. Evaluation Data

HIATUS will utilize distinct test data to evaluate Performer subcomponents, modules, and systems against
program goals, objectives, and metrics. Each HIATUS Test Set (HTS) will consist of diverse documents in
English and target languages (in Phases 2 and 3) representing a broad sampling of topic domains and genres.
These data are constructed to evaluate program metrics in a balanced and intentional manner. The set of
ground-truth-labelled authors appearing in this collection will not overlap with that of the HRS dataset.
Moreover, to the extent that HTS data is released to Performers following evaluation milestones for the
purpose of error analysis, all documents produced by ground-truth-labelled authors appearing in these releases will be removed from the portion of the HTS that remains sequestered. This ensures that no authors whose content was used for system development will be included in the testing set, and that systems performance generalizes.

Intended uses of the HTS evaluation datasets include both use by the T&E Team for independent evaluation of program Deliverables against target metrics, and use by Performers to refine and improve their algorithms. Small portions of the evaluation datasets will be provided to Performers to enable internal T&E and exploratory error analysis by Performers and to improve the consistency and communication between Performers and the T&E Team. Additional sequestered or external datasets may be used to supplement performance evaluations at the discretion of the HIATUS PM.

1.D.3. Privacy Plan

As part of their proposal, Offerors shall prepare a HIATUS Privacy Plan v1.0 that comprehensively describes the efforts the Offeror will take to protect personally identifiable information and safeguard the security of any personal data collected or services involved in collection, transmission, processing, and storage of this data. Any claims that data are anonymous must be based on evidence and supported with sufficient information regarding how the data have been anonymized. Each Performer’s Privacy Plan shall cover all data categories described in this BAA; relevant information on GFI datasets will be provided by the T&E Team in advance of data release.

The initial version of the HIATUS Privacy Plan shall be included in the Offeror’s proposal (as Attachment 12) that covers all external datasets to be leveraged as part of the proposed research approaches. The HIATUS Privacy Plan shall be updated at the beginning of each Phase and whenever new sources of data or datasets are proposed for use within a Performer’s HIATUS research activities, including data used for either development or evaluation purposes. Details on government-provided research datasets (see 1.D.1.1. Government Research and Test Sets) will be provided by IARPA at the Phase 1 Kick-off Meeting for inclusion in the HIATUS Privacy Plan v1.1 Deliverable (see Table 4).

1.E. Test and Evaluation (T&E)

T&E will be conducted by an independent team of Government and contractor staff carrying out evaluation and analyses of Performer research Deliverables using program test datasets and protocols. The HTS data and test protocols (see 1.D.2. Evaluation Data) will be the primary mechanism by which the T&E Team carries out their evaluations.

The HIATUS Program will pursue rigorous and comprehensive independent T&E to ensure that research outcomes are well characterized, deliverables are aligned with program objectives, and that algorithm performance is measured across the full range of conditions. Such T&E activities will not only inform IARPA and Government stakeholders on HIATUS research progress but will also serve as invaluable feedback to the Performers to improve their research approaches, algorithm training practices, and system development. The HIATUS Program will work closely with Government leaders in human language technology and biometrics to continually refine and improve T&E methodologies.

The Government will provide Performers with a uniform test Evaluation Harness (EH) Software Development Kit (SDK) with relevant scripts to run program test protocols on program datasets. The design of the EH will be informed by prior adversarial machine learning testing software, such as the ARMORY testbed (https://github.com/twosixlabs/armory). The evaluation environment will be the platform for independent government testing of Performer Deliverables.

Performers will have specific Deliverable Milestones at which all subcomponent and system algorithms and software will be delivered to IARPA and its designated T&E Team. The T&E Team will then conduct evaluations at the direction of the HIATUS Program Manager (PM) and with the objective of characterizing
the quality, functionality, and performance of the HIATUS Deliverables. In addition to quantitative measurements, T&E will be carried out to establish a thorough understanding of the progress, status, and limitations of the Performer’s research.

T&E results and feedback will be provided to Performers at regular intervals to keep them abreast of current independent performance measurements and to inform and improve their R&D approaches and methods. T&E results from all Performers will be shared with all teams to establish an understanding of the current state and progress of HIATUS research; T&E results will also be shared with USG external stakeholders, including their contractors, for Government purposes (see 4. A.). For example, a Principal Investigator (PI) Review Meeting will be held annually to share research ideas, progress, and results across the HIATUS program (see 1.H.1.).

IARPA may conduct other supplemental evaluations or measurements in its sole discretion to evaluate the Performers’ research and Deliverables.

1.F. Program Metrics

Achievement of metrics is a performance indicator under IARPA research programs. IARPA has defined HIATUS program metrics to evaluate effectiveness of the proposed solutions in achieving the stated program goal and objectives, and to determine whether satisfactory progress is being made. The metrics described in this BAA are shared with the intent to scope the effort, while affording maximum flexibility, creativity, and innovation to Offerors proposing solutions to the stated problem.

The final HIATUS T&E protocols and evaluation methodology are currently under development; further details will be provided at program kickoff. Program metrics may be refined during the various phases of the HIATUS program; if metrics change, revised metrics will be communicated in a timely manner to Performers. The evaluation methodology may be revised by the Government at any time during the program lifecycle to better meet program needs.

HIATUS program target metrics were selected based on three factors:

1. What is technically achievable but challenging based on current state-of-the-art in authorship attribution and authorship privacy;
2. What is statistically measurable based on the planned program evaluation data; and
3. What is useful to mission partners based on USG stakeholder needs and use cases.

The following is a description of primary program metrics and target scores. Score targets will increase for each successive program phase. Targets scores account for text length since shorter documents are assumed to contain less stylistic content and thus are more difficult to attribute.

HIATUS performance metrics are designed to evaluate the software components deliverables for each of the three program tasks areas: feature space generation (TA1), attribution (TA2) and privacy (TA3).

Performer software submissions for TA1 are evaluated using a document-level recognition (i.e., rank retrieval) task. The recognition task tests whether a system can use a query document from a given author to retrieve from a database a top set of returned results containing other documents produced by the same author. Recall that the goal of TA1 is to encode an optimized feature space wherein observations (texts) from the same class (author) are projected near one another, regardless of non-authorial properties such as topic, genre, etc. At test time, the Performer system must generate feature encodings for a set of author query documents as well as documents from a retrieval database containing diverse document types.12 Using Performer system generated encodings, the T&E Team will retrieve a ranked list of $k$ nearest neighbors for each author query. The program does not place constraints on the properties of the feature space; however, teams must stipulate an encoding that allows calculation of similarity. The specific metric

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12 Prior to generating feature encodings, performer systems will be permitted to fine-tune to corpora within the hidden dataset; however, no authorship labels will be provided.
of interest for this evaluation is success at n (a.k.a. S@n), which defines the likelihood that a document produced by the same author as the query document will appear in the top n results. The program considers both S@1 and S@8, i.e., whether the query shares authorship with the top result or one of the top 8 results, respectively.

Performer software submissions for TA2 are evaluated using an author-level identification task. Given a set of query documents from an author, for every document in the evaluation corpus, a Performer system will output a confidence score between 0 and 1 that represents this evaluation document’s likelihood of being created by the same author as the query. The primary TA2 evaluation metric is the true accept rate (TAR) at false accept rate (FAR) (TAR@FAR), where TAR is the probability of correct acceptance and FAR is the probability of incorrect acceptance. The metric will be calculated for different values of a decision threshold. Program metric targets will be expressed in terms of specific combinations of TAR and FAR values (see Table 3). Performers are expected to achieve increasingly challenging TAR@FAR scores for each successive program phase. Target scores for TA2 increase for each successive program phase. Performers are also expected to achieve more difficult targets scores for longer documents. T&E will also calculate various secondary metrics to provide more insight into system performance, such as Equal Error Rate (EER) and the Minimum of Decision Cost Function (MinDCF).

An additional critical requirement for TA2 and TA3 is that Performer systems provide explanations to clarify to a human user the rationale underpinning their attributions. These explanations will serve two purposes:

1. **Giving the human user/analyst confidence in the results produced by the Performer system.** Satisfaction of this criterion may be evaluated, for example, by having human users perform document reranking of a set of highly ranked documents using only the provided explanations and comparing the resulting attribution accuracy with that of the original ranking.

2. **Facilitating user’s downstream actions on the attributed documents.** Satisfaction of this criterion may be evaluated, for example, by having human users modify highly ranked documents to thwart attribution and measuring the effects of that using TA3 metrics.

IARPA is especially interested in Offerors that can articulate novel techniques in explainable NLP to address this key program requirement. The detailed protocol and metrics for evaluating these techniques during Phases 2 and 3 will be established in Phase 1 via a collaboration between the T&E Team partners and Performers.

The goal of TA3 is authorship privacy. The HIATUS program defines the success of a Performer’s privacy algorithm in terms of (i) how well it thwarts the attribution systems developed by opponent Performer teams, while at the same time (ii) ensuring that the modified document maintains fluency (soundness) and remains faithful to the semantics of the original query document (sense). The ability of a TA3 system to thwart attribution is measured by the relative change in performance of an opponent’s TA2 system before and after modification of the document as expressed by the primary TA2 metric.

To evaluate preservation of fluency and sense, the T&E team will rely on both automatic and human-in-the-loop assessments. Two considerations inform the human-in-the-loop aspect of evaluation protocol for TA3. First, the T&E Team will provide human analysts to evaluate system output for TA3. Teams will be penalized for producing outputs that do not maintain the soundness and sense of source documents. Secondly, Performer privacy systems should minimize human effort. The T&E Team will provide baseline measures of human effort for TA3 calculated in terms of edits made or time spent curating a document. In each program phase, TA3 submissions will be evaluated under two conditions: automated + human feedback and fully automated. In the human feedback condition, interaction per document will be restricted to a percentage of baseline effort. This human effort threshold will be reduced in Phases 2 and 3. During evaluation all human feedback will be provided by human analysts contracted by the T&E Team.
A final key technical consideration for TA3 is that the output of the privacy system should be stylistically self-consistent. By way of example, five documents from a single author that have each been modified by a Performer’s TA3 system should not exhibit stylistic features that make them appear to have been produced by five distinct authors; rather, all five documents should ideally exhibit stylistic properties consistent with a single author. The stylistic self-consistency of documents produced by each Performer’s TA3 component will be evaluated using a rank and retrieval task with the following protocol: All documents from the same ground-truth-labeled author will be processed by TA3 component under evaluation. One of these documents will be retained as a query document, while the remainder will be inserted into the retrieval collection. TA1 systems from opponent teams will rank documents in the collection by similarity to the query. A higher mean rank of co-authored documents indicates higher stylistic self-consistency.

A summary of metric targets by Phase is shown in Table 3; these metrics are subject to change over the course of the program. Accuracy targets are defined as aggregated statistical measures for a given phases’ HTS evaluation datasets, which contain documents drawn from a broad selection of document types and ground-truth-labeled authors with diverse backgrounds. These targets are estimates informed by current capabilities and use case requirements. To mitigate risk and better inform the Government regarding the appropriateness of phase-over-phase performance targets, the T&E Team will produce baseline systems for each task approximating current state-of-the-art. Further information about baseline models will be furnished to Performers at program kickoff.

Table 3: HIATUS Program Target Metrics

<table>
<thead>
<tr>
<th>Task and Metric</th>
<th>Phase 1 Target</th>
<th>Phase 2 Target</th>
<th>Phase 3 Target</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TA1: Feature Space Generation</strong> (Rank and Retrieval)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>S(ucces)</strong>@8</td>
<td>S@8 0.85 S@1 0.30</td>
<td>S@8 0.90 S@1 0.60</td>
<td>S@8 0.95 S@1 0.80</td>
</tr>
<tr>
<td><strong>S(ucces)</strong>@1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Long Text</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Medium Text</strong></td>
<td>N/A</td>
<td>S@8 0.85 S@1 0.30</td>
<td>S@8 0.90 S@1 0.60</td>
</tr>
<tr>
<td><strong>Short Text</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>S@8 0.85 S@1 0.30</td>
</tr>
<tr>
<td><strong>TA2: Attribution</strong> (Identification) <strong>TAR@FAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Long Text</strong></td>
<td>85%@10%</td>
<td>85%@5%</td>
<td>90%@1%</td>
</tr>
<tr>
<td><strong>Medium Text</strong></td>
<td>N/A</td>
<td>85%@10%</td>
<td>85%@5%</td>
</tr>
<tr>
<td><strong>Short Text</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>85%@10%</td>
</tr>
<tr>
<td><strong>TA3: Privacy</strong> (Rank and retrieval) <strong>Sound/Sensible Baseline</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>All Text Sizes</strong></td>
<td>-20% ΔTAR@FAR TBD</td>
<td>-40% ΔTAR@FAR TBD</td>
<td>-70% ΔTAR@FAR TBD</td>
</tr>
<tr>
<td><strong>Human Effort</strong></td>
<td>All Text Sizes</td>
<td>50% of baseline (0% stretch)</td>
<td>25% of baseline (0% stretch)</td>
</tr>
<tr>
<td><strong>Explanations</strong></td>
<td>All Text Sizes</td>
<td>Designed by T&amp;E Team and Performers</td>
<td>Implemented by T&amp;E Team</td>
</tr>
</tbody>
</table>
1.G. Program Waypoints, Milestones, and Deliverables

Waypoints, Milestones, and Deliverables are established from the program’s onset to ensure alignment with HIATUS objectives, organize research activities in a logical and reportable manner, and facilitate consistent and efficient communication among all stakeholders – IARPA, the HIATUS T&E Team, USG Stakeholders, and Research Performers. A schedule of key program Milestones and Deliverables is shown in Figure 7.

![Figure 7: Schedule of Key Milestones and Deliverables](image)

**1.G.1. Program Waypoints**

Waypoints are the means by which the Performer clearly demonstrates the quantitative and timely progress that must be made for the overall concept to meet end-of-phase Milestones. In other words, the intent of Waypoints is to provide a clear measure of progress towards meeting the program Milestones so the PM and advisors can provide more effective guidance and assistance to the Performers. Performance against these Waypoints will be reviewed throughout the program, and the PM and advisors will use performance against the Waypoints to assess whether course corrections are needed to ensure program success.

The Government has defined Waypoints for all Performers that are included in the Program Milestones and Deliverables (see 1.G.2.). Progress against these Waypoints will be reviewed during site visits.

**1.G.2. Program Milestone, Waypoint, and Deliverables Timeline**

Table 4, Table 5 and Table 6 show a timeline for the program with defined Milestones, Waypoints and Deliverables. The Offeror may add other Waypoints in addition to the minimum set listed in the table.

**Table 4: Program Phase 1 Milestone, Waypoint and Deliverables Timeline**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Month</th>
<th>Event</th>
<th>Description</th>
<th>Comments</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3</td>
<td>All</td>
<td>Waypoint</td>
<td>Monthly Status Report (MSR)</td>
<td>Due on 15th of each month; Technical and cost</td>
<td>MSR</td>
</tr>
<tr>
<td>1-3</td>
<td>All</td>
<td>Waypoint</td>
<td>Progress and Status Meeting</td>
<td>Monthly teleconference with HIATUS PM</td>
<td>N/A</td>
</tr>
<tr>
<td>Phase</td>
<td>Month</td>
<td>Event</td>
<td>Description</td>
<td>Comments</td>
<td>Deliverables</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>----------------</td>
<td>---------------------------------</td>
<td>--------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Waypoint</td>
<td>HRS1 datasets</td>
<td>Provided as GFI</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Waypoint</td>
<td>Kick-off Meeting</td>
<td>Location TBD; information about system harness, text normalization schemes furnished to Performers; T&amp;E presents guidelines for developing protocol for evaluating explainability</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>Milestone</td>
<td>IRB Approval</td>
<td>For HRC collections</td>
<td>Report and IRB documentation</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>Deliverable</td>
<td>Privacy Plan v1.1</td>
<td>Submitted for IARPA approval</td>
<td>Report</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>6</td>
<td>Deliverable</td>
<td>System submission for Milestone 1.1</td>
<td>All subcomponents and systems</td>
<td>TA1 System; HRC; Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>Milestone</td>
<td>Evaluation Milestone 1.1</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>Deliverable</td>
<td>Proposals for evaluating explainability</td>
<td>Delivered by Performers to T&amp;E Team and other Performers</td>
<td>Document</td>
</tr>
<tr>
<td>1</td>
<td>9</td>
<td>Deliverable</td>
<td>System submission for Milestone 1.2a</td>
<td>All subcomponents and systems</td>
<td>TA2 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>1</td>
<td>10</td>
<td>Milestone</td>
<td>Evaluation Milestone 1.2a</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>11</td>
<td>Waypoint</td>
<td>Review of combined framework for evaluating explainability</td>
<td>T&amp;E Team presents tentative evaluation framework to Performers; Performers present work on explainable NLP</td>
<td>Meeting</td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>Deliverable</td>
<td>System submission for Milestone 1.2</td>
<td>All subcomponents and systems</td>
<td>TA2 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>1</td>
<td>14</td>
<td>Milestone</td>
<td>Evaluation Milestone 1.2</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>14</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>16</td>
<td>Deliverable</td>
<td>System submission for Milestone 1.3</td>
<td>All subcomponents and systems</td>
<td>TA3 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>1</td>
<td>17</td>
<td>Milestone</td>
<td>Evaluation Milestone 1.3</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>Phase</td>
<td>Month</td>
<td>Event</td>
<td>Description</td>
<td>Comments</td>
<td>Deliverables</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>-------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>1</td>
<td>18</td>
<td>Waypoint</td>
<td>HRC datasets combined and released to Performers; evaluation protocol for explainability finalized and released</td>
<td>Provided as GFI</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>18</td>
<td>Waypoint</td>
<td>PI Meeting</td>
<td>Location TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>1</td>
<td>18</td>
<td>Deliverable</td>
<td>Phase 1 final report</td>
<td>Any updated or additional data or software also due</td>
<td>Report</td>
</tr>
</tbody>
</table>

Table 5: Program Phase 2 Milestone, Waypoint and Deliverables Timeline

<table>
<thead>
<tr>
<th>Phase</th>
<th>Month</th>
<th>Event</th>
<th>Description</th>
<th>Comments</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>19</td>
<td>Waypoint</td>
<td>HRS2 datasets</td>
<td>Provided as GFI</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>Waypoint</td>
<td>Kick-off</td>
<td>Location TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>20</td>
<td>Deliverable</td>
<td>Privacy Plan v2.0</td>
<td>Submitted for IARPA approval</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>22</td>
<td>Deliverable</td>
<td>System submission for Milestone 2.1</td>
<td>All subcomponents and systems</td>
<td>TA1 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>2</td>
<td>23</td>
<td>Milestone</td>
<td>Evaluation Milestone 2.1</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>23</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>25</td>
<td>Deliverable</td>
<td>System submission for Milestone 2.2</td>
<td>All subcomponents and systems</td>
<td>TA2 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>2</td>
<td>26</td>
<td>Milestone</td>
<td>Evaluation Milestone 2.2</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>27</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>28</td>
<td>Waypoint</td>
<td>PI Meeting</td>
<td>Location TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>28</td>
<td>Deliverable</td>
<td>System submission for Milestone 2.3</td>
<td>All subcomponents and systems</td>
<td>TA3 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>Phase</td>
<td>Month</td>
<td>Event</td>
<td>Description</td>
<td>Comments</td>
<td>Deliverables</td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td>-------</td>
<td>-------------</td>
<td>----------</td>
<td>--------------</td>
</tr>
<tr>
<td>2</td>
<td>29</td>
<td>Milestone</td>
<td>Evaluation Milestone 2.3</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>Waypoint</td>
<td>HRC datasets combined and released to Performers</td>
<td>Provided as GFI</td>
<td>N/A</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>Deliverable</td>
<td>Phase 2 final report</td>
<td>Any updated or additional data or software also due</td>
<td>Report</td>
</tr>
</tbody>
</table>

Table 6: Program Phase 3 Milestone, Waypoint and Deliverables Timeline

<table>
<thead>
<tr>
<th>Phase</th>
<th>Month</th>
<th>Event</th>
<th>Description</th>
<th>Comments</th>
<th>Deliverables</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>31</td>
<td>Waypoint</td>
<td>HRS3 datasets</td>
<td>Provided as GFI</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>32</td>
<td>Waypoint</td>
<td>Kick-off</td>
<td>Location TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>32</td>
<td>Deliverable</td>
<td>Privacy Plan v3.0</td>
<td>Submitted for IARPA approval</td>
<td>Report</td>
</tr>
<tr>
<td>3</td>
<td>34</td>
<td>Deliverable</td>
<td>System submission for Milestone 3.1</td>
<td>All subcomponents and systems</td>
<td>TA1 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>3</td>
<td>35</td>
<td>Milestone</td>
<td>Evaluation Milestone 3.1</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>35</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>37</td>
<td>Deliverable</td>
<td>System submission for Milestone 3.2</td>
<td>All subcomponents and systems</td>
<td>TA2 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>3</td>
<td>38</td>
<td>Milestone</td>
<td>Evaluation Milestone 3.2</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>39</td>
<td>Waypoint</td>
<td>Site Visit</td>
<td>At Performer site</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>40</td>
<td>Deliverable</td>
<td>System submission for Milestone 3.3</td>
<td>All subcomponents and systems</td>
<td>TA3 System; HRC (updated); Software should be delivered at the beginning of evaluation. Updated software may be requested if bugs are identified during evaluation</td>
</tr>
<tr>
<td>3</td>
<td>40</td>
<td>Milestone</td>
<td>Evaluation Milestone 3.3</td>
<td>T&amp;E reports scores to Performers</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>42</td>
<td>Deliverable</td>
<td>Final report</td>
<td>Any updated or additional data or software also due</td>
<td>Report</td>
</tr>
<tr>
<td>3</td>
<td>42</td>
<td>Waypoint</td>
<td>PI Meeting</td>
<td>Location TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>3</td>
<td>42</td>
<td>Deliverable</td>
<td>Deliver final Phase 3 software</td>
<td>All subcomponents, systems, and documentation; Final HRCs due</td>
<td>Software, Final HRCs</td>
</tr>
</tbody>
</table>

1.G.3. Software Deliverable Formatting
Performers will be required to provide algorithm and software Deliverables in a manner that conforms to a standardized industrial method or methods that will be provided at program Kickoff. To facilitate planning, Offerors may assume that the standardized configuration will require the use of software containerization technology (e.g., Docker and a REST API). This means that the entirety of a Performer’s system, including pre- and post-processing, must be included within the delivered software container. For models that require training, the expectation is for the initial model training to occur on Performer systems, with the ability for the T&E Team to re-train and test the model with the same and/or other data. Performers shall also provide source code at the Government’s request to enable modification of Performer containers to suit deployment constraints. Offeror teams that do not include the requisite expertise to conduct such software development should include costs in their proposal to obtain software development support.

Each team is required to include among their key personnel a Lead System Integrator (LSI) who shall be responsible for preparing software Deliverable subcomponents, modules, and systems, performing quality control of Deliverable, and integrating key components into the primary HIATUS system(s). The LSI will also oversee communication and coordination across a Performer’s research teams including subcontractors, if applicable, to ensure research products are functional and following software coding best practices (e.g., inline comments, documentation). Additional team members and roles are dependent on the proposed research, as such, there is no predetermined or required skill mix.

1.G.3.1.  Program API

The HIATUS Program will utilize a standardized Application Programming Interface (API) for all software Deliverables and evaluations. The first version of the HIATUS API will be provided to Performers at the Phase 1 Kick-off Meeting and updated periodically thereafter. The API will define function calls, data structures, and display creation and management for operating and evaluating HIATUS software in a standardized manner. The API will accommodate text datasets and human-in-the-loop interactions. All Performer solutions must be compatible with the HIATUS API.

1.H.  Meeting and Travel Requirements

Offerors are expected to assume responsibility for administration of their projects and to comply with contractual and program requirements for reporting, attendance at program workshops, and availability for site visits. The following paragraphs describe typical expectations for meetings and travel for IARPA programs as well as the contemplated frequency and locations of such meetings. In addition to ensuring that all necessary details of developed software, algorithm, and operational instructions are clear and complete, each Performer will be required to be available for questions and troubleshooting from the T&E Team in Performer status meetings.

1.H.1. Workshops

All Performer teams are expected to attend workshops, including key personnel from prime and subcontractor organizations.

The HIATUS program intends to hold a program Kick-off Meeting workshop in the first month of the program and the first month of each subsequent program phase. In addition, the program will hold a PI Review Meeting starting in Phase 1 and then similar workshops annually thereafter. Kick-off Meetings and PI Review Meetings may be combined for logistical convenience. The dates and locations of these meetings are to be specified at a later date by the Government, but for planning purposes, Offerors should use the approximate times and locations listed in Table 4. Both types of meetings will likely be held in the Washington, D.C. metropolitan area, but IARPA may opt to co-locate the meeting with a relevant external conference or workshop to increase synergy with stakeholders. IARPA reserves the right to hold the meeting virtually for logistical or health and safety reasons.
Kick-off Meetings will typically be one day in duration and will focus on plans for the coming Phase, Performer planned research, and internal program discussions. PI Review Meetings will typically be two days in duration and will have a greater focus on communicating program progress and plans to USG stakeholders. These meetings will include additional time allocated to presentation and discussion of research accomplishments as well as interactive system demonstrations for Government stakeholders.

In both cases, the workshops will focus on technical aspects of the program and on facilitating open technical exchanges, interaction, and sharing among the various program participants. Program participants will be expected to present the technical status and progress of their projects to other participants and invited guests. Individual sessions for each Performer team with the HIATUS PM and T&E Team may be scheduled to coincide with these workshops. Non-proprietary information will be shared by Performers in the open meeting sessions; proprietary information sharing shall occur during individual breakout sessions with the HIATUS PM and the T&E Team.

1.H.2. Site Visits

Site visits by the Government Team will generally take place semiannually during the life of the program. These visits will occur at the Performer’s facility. Reports on technical progress, details of successes and issues, contributions to the program goals, and technology demonstrations will be expected at such site visits. Performers shall participate and provide final meeting documents, to include captured action items, within 15 calendar days following the meeting. Draft materials, for any presentations, are due 5 workdays prior to the meeting. IARPA reserves the right to conduct additional site visits on an as-needed basis.

1.1. Period of Performance

The HIATUS program is envisioned as a 42-month effort that is intended to kickoff in October 2022. Phase 1 (i.e., Base Period) of the Program will last 18 months; Phase 2 (i.e., Option Period 1) will last 12 months; and Phase 3 (i.e., Option Period 2) will last 12 months. Offerors are required to submit a proposal that addresses all three phases.

1.J. Place of Performance

Performance will be conducted at the Performers’ sites.

SECTION 2: AWARD INFORMATION

The Government intends to award contracts encompassing all Phases of the program from this BAA. Exercise of the Option Periods shall depend upon performance during Phase 1 - Base Period and subsequent Option Periods, as well as program goals, the availability of funding, and IARPA priorities. Exercising of Phases 2 – Option Period 1 and Phase 3-Option Period 2 is at the sole discretion of the Government.

Multiple awards are anticipated. The resources made available under this BAA shall depend on the quality of the proposals received and the availability of funds.

The Government reserves the right to select for negotiation all, some, or none of the proposals received in response to this solicitation and to make awards without discussions with Offerors. The Government also reserves the right to conduct discussions if determined to be necessary. Additionally, IARPA reserves the right to accept proposals in their entirety or to select only portions of proposals for negotiations for award. Evaluation and award of proposals will follow FAR 35 processes as described herein.

Awards under this BAA shall be made to Offerors on the basis of the Evaluation Factors listed in section 5 of the BAA, as well as, successful completion of negotiations. Proposals selected for negotiation may result in a procurement contract or other transaction. The Government reserves the right to negotiate the type of award instrument (e.g. procurement contract or other transaction) it determines appropriate under the circumstances.
The Government shall contact Offerors whose proposals are selected for negotiations to obtain additional information required for award. The Government may establish a deadline for the close of fact-finding and negotiations that allows a reasonable time for the award of a contract. Offerors that are not responsive to Government deadlines established and communicated with the request may be removed from award consideration. Offerors may also be removed from award consideration should the parties fail to reach agreement within a reasonable time on contract terms, conditions, and cost/price.

SECTION 3: ELIGIBILITY INFORMATION

3.A. Eligible Applicants

All responsible sources capable of satisfying the Government's needs may submit a proposal. Historically Black Colleges and Universities, Small Businesses, Small Disadvantaged Businesses and Minority Institutions are encouraged to submit proposals and team with others to submit proposals; however, no portion of this announcement shall be set aside for these organizations’ participation due to the impracticality of reserving discrete or severable areas of this R&D effort for exclusive competition among these entities. Other Government Agencies, Federally Funded Research and Development Centers, University Affiliated Research Centers, Government-Owned, Contractor-Operated facilities, Government Military Academies, and any other similar type of organization that have a special relationship with the Government, that gives them access to privileged and/or proprietary information or access to Government equipment or real property, are not eligible to submit proposals under this BAA or participate as team members under proposals submitted by eligible entities. An entity of which only a portion has been designated as a UARC may be eligible to submit a proposal or participate as a team member subject to an organizational conflict of interest review.

Foreign entities and/or individuals may participate but only as a part of a U.S. based team. The prime contractor must be a U.S. organization. Foreign entities and individuals may participate as subcontractors or employees of a U.S. organization; however, all foreign participation must comply with any necessary Non-Disclosure Agreements, Security Regulations, Export Control Laws, and other governing statutes applicable under the circumstances. Offerors are expected to ensure that the efforts of foreign participants do not either directly or indirectly compromise the laws of the United States, nor its security interests. As such, both foreign and domestic Offerors should carefully consider the roles and responsibilities of foreign participants as they pursue teaming arrangements.

3.A.1 Organizational Conflicts of Interest (OCI)

According to FAR 2.101 “Organizational Conflict of Interest” means that because of other activities or relationships with other persons, a person is unable or potentially unable to render impartial assistance or advice to the Government, or the person’s objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage.

In accordance with FAR 9.5, Offerors are required to identify and disclose all facts relevant to potential OCIs involving the Offeror’s organization and any proposed team member (sub awardee, consultant). Under this Section, the Offeror is responsible for providing this disclosure with each proposal submitted pursuant to the BAA. The disclosure must include the Offeror’s, and as applicable, proposed team member’s OCI mitigation plan. The OCI mitigation plan must include a description of the actions the Offeror has taken, or intends to...

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13 There are instances when these types of entities provide a unique facility, specialized equipment or technical service that is not otherwise obtainable. In such cases, offerors can request use and the Government will determine if the resource can be made available to all offerors as Government Furnished Property/Equipment/Information/Service. If the resource requested cannot be provided directly by the Government, the Government may consider an offeror’s request for limited use as a procured service not otherwise available only after an OCI review and determination. It is advised that the offeror have an alternate plan in its proposal in case the Government does not accept the proposed participation. Requests for such resources can be submitted during the Q&A period.
take, to prevent the existence of conflicting roles that might bias the Offeror’s judgment and to prevent the Offeror from having an unfair competitive advantage. The OCI mitigation plan will specifically discuss the disclosed OCI in the context of each of the OCI limitations outlined in FAR 9.505-1 through FAR 9.505-4.

IARPA generally prohibits contractors/Performers from concurrently providing Scientific Engineering Technical Assistance (SETA), Advisory and Assistance Services (A&AS) or similar support services and being a technical Performer. Therefore, as part of the FAR 9.5 disclosure requirement above, address whether an Offeror or an Offeror’s team member (e.g. sub awardee, consultant) is providing SETA, A&AS, or similar support (e.g., T&E services) to IARPA under: (a) a current award or subaward; or (b) a past award or subaward.

If SETA, A&AS, or similar support is or was being provided to IARPA, the proposal must include:
- The name of the IARPA program or office receiving the support;
- The prime contract number;
- Identification of proposed team member (sub awardee, consultant) providing the support.

As part of their proposal, Offerors shall include either (a) a copy of their OCI notification including mitigation plan or (b) a written certification that neither they nor their subcontractor teammates have any potential conflicts of interest, real or perceived. A sample certification is provided in Appendix A.

The Government will evaluate OCIs and potential OCIs to determine whether they can be avoided, neutralized or mitigated and/or whether it is in the Government’s interest to grant a waiver. The Government will make OCI determinations, as applicable, for proposals that are otherwise selectable under the BAA Evaluation Factors.

The Government may require Offerors to provide additional information to assist the Government in evaluating OCIs and OCI mitigation plans.

If the Government determines that an Offeror failed to fully disclose an OCI; or failed to provide the affirmation of IARPA support as described above; or failed to reasonably provide additional information requested by Government to assist in evaluating the Offeror’s OCI and proposed OCI mitigation plan, the Government may reject the proposal and withdraw it from consideration for award.

3. A.2 Multiple Submissions to the BAA

Organizations may participate as a prime or subcontractor in more than one submission to the BAA. However, if multiple submissions to the BAA which include a common team member are selected, such common team members shall not receive duplicative funding (i.e., no one entity can be paid twice to perform the same task).

3. B. U.S. Academic Institutions

According to Executive Order 12333, as amended, paragraph 2.7, “Elements of the Intelligence Community are authorized to enter into contracts or arrangements for the provision of goods or services with private companies or institutions in the United States and need not reveal the sponsorship of such contracts or arrangements for authorized intelligence purposes. Contracts or arrangements with academic institutions may be undertaken only with the consent of appropriate officials of the institution.”

Offerors must submit a completed and signed Academic Institution Acknowledgement Letter for each U.S. academic institution that is a part of their team, whether the academic institution is serving in the role of a prime, or a subcontractor or a consultant at any tier of their team with their technical proposal. Each Letter must be signed by a senior official from the institution (e.g. President, Chancellor, Provost, or other appropriately designated official). A template of the Academic Institution Acknowledgement Letter is
enclosed in APPENDIX A of this BAA. Note that IARPA shall not enter into negotiations with an Offeror whose team includes a U.S. academic institution until all required Academic Institution Acknowledgment Letters are received.

3. C. Other Eligibility Criteria

3. C.1 Collaboration Efforts

Collaborative efforts and teaming arrangements among potential Offerors are strongly encouraged. Specific content, communications, networking and team formations are the sole responsibility of the participants.

SECTION 4: PROPOSAL AND SUBMISSION INFORMATION

This notice constitutes the total BAA and contains all information required to submit a proposal. No additional forms, kits, or other materials are required.

4. A. Proposal Information

Interested Offerors are required to submit full proposals (Volume I, initially and Volume 2, if requested) in order to receive consideration for award. Compliant proposals shall be received by the time and date specified in the BAA, General Information, item 7.2, Proposal Due Date for Initial Round of Selections, in order to be considered in the initial round. It is within IARPA’s sole discretion whether to evaluate any proposals received after this date but prior to the BAA Closing Date set forth in General Information, item 7.3. Selection for award remains contingent on the technical and funding availability evaluation factors. Proposals received after the BAA Closing Date are deemed to be late and will not be evaluated.

The Government intends to use Booz Allen Hamilton and Bluemont Technology & Research to provide expert advice, regarding portions of the proposals submitted to the Government and/or to provide logistical support in carrying out the evaluation process.

In addition to supporting evaluations, the following entities: TO BE DETERMINED (entity information will be updated via BAA amendment prior to the BAA closing date) will be supporting T&E activities for contracts awarded under this program and should also be considered as part of an Offeror’s OCI disclosure.

All Government and Contractor personnel shall have signed and be subject to the terms and conditions of non-disclosure agreements. By submission of its proposal, an Offeror agrees that its proposal information may be disclosed to employees of these organizations for the limited purposes stated above. Offerors who object to this arrangement shall provide clear notice of their objection as part of their transmittal letter. If Offerors do not send notice of objection to this arrangement in their transmittal letter, the Government shall assume consent to the use of contractor support personnel in assisting the review of submittal(s) under this BAA.

Only Government personnel will make evaluation and award determinations under this BAA.

All administrative correspondence and questions regarding this solicitation shall be directed by email to DNI-IARPA-BAA-22-01@iarpa.gov. Proposals shall be submitted in accordance with the procedures stated in the BAA.

4. B. Proposal Format and Content

To facilitate the evaluation of the proposal, the government encourages Offerors to submit proposals which: are clear and concise; are limited to essential matters sufficient to demonstrate a complete understanding of the Government’s requirements; include sufficient detail for effective evaluation; and provide a convincing rationale to address how the Offeror intends to meet these requirements and objectives, rather than simply rephrasing or restating the Government’s requirements and objectives.
All proposals shall be in the format outlined below. Non-compliant proposals may be rejected without review. Proposals shall consist of “Volume 1 - Technical and Management Proposal” and, only if requested (see BAA sections 4.B.2 and 5.B.), “Volume 2 - Cost Proposal.” All proposals shall be written in English.

Additionally, text should be black and paper size 8-1/2 by 11-inch, white in color with 1” margins from paper edge to text or graphic on all sides. IARPA desires Times New Roman font with font size not smaller than 12 point. IARPA desires that the font size for figures, tables and charts not be smaller than 10 point. All contents shall be clearly legible with the unaided eye. Excessive use of small font, for other than figures, tables, and charts, or unnecessary use of figures, tables, and charts to present information may render the proposal non-compliant. Text and graphics, if applicable, may be printed on both sides of a sheet (double-sided). Front and backside of a single sheet are counted as two (2) pages if both sides are printed upon. Foldout pages are not permitted. The page limitation for full proposals includes all figures, tables, and charts. All pages should be numbered. No other materials may be incorporated in any portion of the proposal by reference, as a means to circumvent page count limitations. All information pertaining to a volume shall be contained within that volume. Any information beyond the page limitations will not be considered in the evaluation of Offerors.

The Government anticipates proposals submitted under this BAA will be UNCLASSIFIED.

Each proposal submitted in response to this BAA shall consist of the following:

**Volume 1 – Technical & Management Proposal (See Section 4.B.1 below)**

Section 1 - Cover Sheet (see Appendix A) & Transmittal Letter (A Table of Contents is not required but if included, will not be considered in the page count)

Section 2 – Summary of Proposal

Section 3 – Detailed Proposal

Section 4 – Attachments (Not included in page count, but number appropriately for elements included. Templates are in the Appendices of this BAA)

1 – Academic Institution Acknowledgment Letter, if required
2 – Intellectual Property (IP) Rights, estimated not to exceed 4 pages
3 – OCI Notification or Certification
4 – Bibliography
5 – Relevant Papers (up to three)
6 – Consultant Letters of Commitment
7 – Human Use Documentation (see Section 6)
8 – Animal Use Documentation (see Section 6) - Not applicable
9 – A Three Chart Summary of the Proposal
10 – Security Plan, estimated not to exceed 5 pages - Not applicable
11 – Research Data Management Plan, estimated not to exceed 3 pages (see Section 4 and Template under Appendix A)
12 – Privacy Plan, (See Section 1.D.3), no page limit

**Volume 2 – Cost Proposal**

*(To be submitted only upon request of the Contracting Officer (CO), See BAA Sections 4.B.2 and 5.B)*

Section 1 – Cover Sheet (see Appendix B)

Section 2 – Estimated Cost Breakdown

Section 3 – Supporting Information
4. B.1 Volume 1: Technical and Management Proposal

Volume 1, Technical and Management Proposal, may include an attached bibliography of relevant technical papers or research notes (published and unpublished) which document the technical ideas and approach on which the proposal is based. Copies of not more than three relevant papers can be included with the submission. Other supporting materials will not be reviewed. Except for the cover sheet, transmittal letter, table of contents (optional), and the required attachments stated in the BAA the allowable page limits are as follows:

- Not to exceed 30 pages

Any pages exceeding these limits will not be considered during the evaluation process. Proposals shall be accompanied by an official transmittal letter, using contractor format.

4. B.1.a Section 1: Cover Sheet & Transmittal Letter

A. Cover sheet: (See Appendix A for template)

B. Transmittal Letter

The transmittal letter shall include the following (not to exceed one page):

Introduction of Offeror and team (subcontractors and consultants), the BAA number, IARPA program name, Offerors’ Program name, the proposal validity period, the type contract vehicle being requested (procurement contract or other transaction) with a short rationale, any non-negotiable conditions on which the offer is based such as contract type (cost type, FFP), IP restrictions, etc., and the Offeror’s points of contact information including: name, email and phone number for both technical and administrative issues.

Note: Any information required elsewhere in the proposal must be included in the appropriate section of the proposal (i.e. including the information in the transmittal letter alone may not be sufficient). If there is a conflict between the transmittal letter and the proposal the proposal shall control.

4. B.1.b Section 2: Summary of Proposal (see below for page limit)

Section 2 shall provide an overview of the proposed work as well as introduce associated technical and management issues. This section shall contain a technical description of technical approach to the research as well as a succinct portrayal of the uniqueness and benefits of the proposed work. It shall make the technical objectives clear and quantifiable and shall provide a project schedule with definite decision points and endpoints.

- Not to exceed 5 pages

The Summary shall include the elements specified in the sections below:

A. A technical overview of the proposed research and plan. This section is the centerpiece of the proposal and shall succinctly describe the proposed approach and research. The overview shall clearly articulate the approach and design, technical rationale, and constructive plan for accomplishment of technical objectives and deliverable production. The approach will be supported by basic, clear calculations. Additionally, proposals shall clearly explain the innovative claims and technical approaches that will be employed to meet or exceed each program metric along with an explanation outlining why the proposed approaches are feasible. Proposals must also clearly identify any technical uncertainties and potential mitigations. The use of non-standard terms and acronyms should be avoided. This section shall be supplemented with a more detailed plan in Volume 1, Section 3 of the proposal.

B. Summary of the products, transferable technology and deliverables associated with the proposed research results. Define measurable deliverables that show progress toward achieving the stated program milestones. All proprietary claims to the results, prototypes, IP, or systems supporting
and/or necessary for the use of the research, results, and/or prototype shall be detailed in Attachment 2. Government assumes that all deliverables will be delivered to the USG with Unlimited Rights in accordance with FAR 52.227-14.

C. **Schedule and milestones for the proposed research.** Summarize, in table form the schedule and milestones for the proposed research. Do not include proprietary information with the milestone chart.

D. **Related research.** Include a general discussion of other research in this area, comparing the significance and plausibility of the proposed innovations against competitive approaches to achieve Program objectives.

E. **Project contributors.** Include a clearly defined organizational chart of all anticipated project participants and affiliations (e.g. subcontractor, consultant), organized under functional roles for the effort, along with the associated task number responsibilities for each individual.

F. **Technical Resource Summary:** *(NOTE: The full Cost Volume is not required unless requested by the CO; therefore, it is critical that Offerors address the items below in their technical proposal so the Government can evaluate Resource Realism.)*

- Summarize the total level of effort by labor category/technical discipline (e.g., Research scientist/chemist/physicist/engineer/administrative) and affiliation (e.g., prime/subcontractor/consultant). All Key Personnel and significant contributors shall be identified by name. Provide a brief description of the qualifications for each labor category/technical discipline (e.g., education, certifications, years of experience).
- Summarize level of effort by labor category/technical discipline for each major task.
- Identify software and IP required for performance, by affiliation. List each item separately, identifying the task number for which the software or IP is required and the Performer team requiring it.
- Identify materials or equipment (such as IT) required for performance. List each item separately, identifying the task number for which the material or equipment is required and the Performer team requiring it.
- Identify any other resources required to perform (e.g., services, data sets, data set repository, facilities, Government furnished property). List each item separately, identifying the task number for these other resources are required and the Performer team requiring it.
- Estimated travel, including purpose of travel and number of personnel per trip, by affiliation. (See Appendix B.4 for sample template)

The above information shall cross reference to the tasks set forth in the Offeror’s statement of work, and shall be supported by the detailed cost and pricing information provided in the Offeror’s Volume 2 Cost Proposal, the latter of which shall be submitted only if requested.

4. **B.1.c. Section 3: Detailed Proposal Information**

This section of the proposal shall provide the detailed, in-depth discussion of the proposed research as well as supporting information about the Offeror’s capabilities and resources. Specific attention shall be given to addressing both the risks and payoffs of the proposed research and why the proposed research will achieve the goals, objectives, metrics, and milestones in this BAA. The Government reserves the right to reject a proposal if the information requested below is not adequately addressed. This part shall provide:

A. **Statement of Work (SOW)** - Clearly define the technical tasks and sub-tasks to be performed, their durations and the dependencies among them. For each task and sub-task, provide:
• A general description of the objective;
• A detailed description of the approach to be taken, developed in an orderly progression and in enough detail to establish the feasibility of accomplishing the goals of the task;
• Identification of the primary organization responsible for task execution (prime, subcontractor, team member, etc.) by name;
• The exit criteria for each task/activity (i.e., a product, event or milestone that defines its completion); and
• Identification of all deliverables (e.g., data rights, reports, software) to be provided to the Government.

**Note:** Do not include any proprietary information in the SOW

At the end of this section of the proposal, provide a Gantt chart, showing all the tasks and sub-tasks on the left (grouped by research thrust) with the performance period (in years/quarters) on the right. All milestones shall be clearly labeled on the chart. If necessary, use multiple pages to ensure legibility of all information.

B. A detailed description of the objectives, scientific relevance, technical approach and expected significance of the work. Clearly identify the key elements of the proposed work and how they relate to each other. Describe the technical methods or approaches that will be used to meet or exceed each program milestone along with an explanation outlining why the proposed methods/approaches are feasible. Additionally, describe any anticipated risks along with possible mitigations. Proposals containing only a general discussion of the problem without detailed description of approaches, plausibility of implementation, and critical metrics may be deemed not selectable.

C. State-of-the-art. Compare with the proposed approach to other on-going research, highlighting the uniqueness of the proposed approach and differences between the proposed effort and the current state-of-the-art. Identify advantages and disadvantages of the proposed work with respect to potential alternative approaches.

D. Data sources. Identify and describe data sources to be utilized in pursuit of the stated research goals.

Offerors proposing to use existing data sets shall provide written verification that said data sets were obtained in accordance with U.S. laws and, where applicable, use will be in compliance with End User License Agreements, Copyright Laws, Terms of Service, and laws and policies regarding privacy protection of U.S. Persons. Offerors proposing to obtain new data sets shall ensure that their plan for obtaining the data complies with U.S. Laws and, where applicable, with End User License Agreement, Copyright Laws, Terms of Service, and laws and policies regarding privacy protection of U.S. Persons. Offeror’s shall also address IP restrictions on the use or transfer of such data sets, in Attachment 2 of the Offeror’s proposal, as described in Section 4.B.1.d.

Offerors shall also include the documentation required in 6.B.3 (Human Use) in Attachment 7.

Documentation must be well written and logical; claims for exemptions from Federal regulations for human subject protection must be accompanied by a strong defense of the claims. The Human Use documentation and the written verification are not included in the total page count.

E. Deliverables. Based on the required deliverables identified in Section 1 of the BAA, clearly identify the data to be delivered, including technical data and computer software. In Attachment 2 to Offeror’s proposal, Offerors shall address IP rights in such data, as described in Section 4.B.1.d.
F. **Cost, schedule, milestones.** Describe the cost, schedule, and milestones for the proposed research, including cost estimates by cost element for base period, the option period(s) and the total program summary, and company cost share, if any, as well as, costs by technical area(s) and tasks (see tables below for sample format). The milestones shall not include proprietary information (Offeror can use their own format for milestones).

*(Note: The full Volume 2 - Cost Proposal is not required unless requested by the CO; therefore, it is critical that Offerors address this element in their technical proposal so the Government can evaluate funding availability. See BAA Sections 4.B.2, 5.A., and 5.B).*

**SAMPLE FORMAT**

<table>
<thead>
<tr>
<th>Cost Element (burdened)</th>
<th>Phase 1 - Base (18 Months)</th>
<th>Phase 2 - Option 1 (12 Months)</th>
<th>Phase 3 – Option 2 (12 Months)</th>
<th>Total Program Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Subcontracts/Consultant</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Materials &amp; Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Direct Costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Cost Share, if any)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

G. **Offeror’s previous accomplishments.** Discuss previous accomplishments and work in this or closely related research areas and how these will contribute to and influence the current work.

H. **Facilities.** Describe the facilities that shall be used for the proposed effort, including computational and experimental resources.

I. **Detailed Management Plan.** Provide the Management Plan that clearly identifies both organizations and individuals within organizations that make up the team, and delineate the expected duties, relevant capabilities, and task responsibilities of team members and expected relationships among team members. Identify the expected levels of effort (percentage time, or fraction of an FTE) for all Key Personnel and significant contributors. Additionally, include a description of the technical, administrative, and business structure of the team along with an internal communications plan. Describe project/function/sub-contractor relationships (including formal teaming agreements), Government research interfaces, and planning, scheduling, and control practices utilized, as well as the team leadership structure. Provide a brief biography of all Key Personnel (including alternates, if desired) and significant contributors who shall be involved in the research along with the amount of effort to be expended by each person during the year. Participation by all Key Personnel and significant contributors is expected to exceed 25% of their time. A compelling explanation is required for any variation from this figure.

If the team intends to use consultants, they shall also be included in the organizational chart with an indication of whether the person shall be an “individual” or “organizational” consultant (i.e., representing themselves or their organization), and organizational affiliation.

See **Table 7** below for the recommended format.
Table 7: Team Organization (Example) * if applicable

<table>
<thead>
<tr>
<th>Participants</th>
<th>Org</th>
<th>Role</th>
<th>Unique, Relevant Capabilities</th>
<th>Role: Tasks</th>
<th>Clearance Level *</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jane Wake</td>
<td>LMN Univ.</td>
<td>PI/Key Personnel</td>
<td>Electrical Engineering</td>
<td>Program Mgr &amp; Electronics: 10</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td>John Week, Jr.</td>
<td>OPQ Univ.</td>
<td>Key Personnel</td>
<td>Mathematical Physics</td>
<td>Programming: 1-5</td>
<td></td>
<td>50%</td>
</tr>
<tr>
<td>Dan Wind</td>
<td>RST Univ.</td>
<td>Key Personnel</td>
<td>Physics</td>
<td>Design, Fab, and Integration: 6-8</td>
<td></td>
<td>90%</td>
</tr>
<tr>
<td>Katie Wool</td>
<td>UVW Univ.</td>
<td>Contributor</td>
<td>Quantum Physics</td>
<td>Enhancement witness design: 4</td>
<td></td>
<td>25%</td>
</tr>
<tr>
<td>Rachel Wade</td>
<td>XYZ Corp.</td>
<td>Co-PI/Key Personnel</td>
<td>Graph theory</td>
<td>Architecture design: 6</td>
<td></td>
<td>55%</td>
</tr>
<tr>
<td>Chris West</td>
<td>XYZ Corp.</td>
<td>Significant Contributor</td>
<td>EE &amp; Signal Processing</td>
<td>Implementation &amp; Testing: 8-9</td>
<td></td>
<td>60%</td>
</tr>
<tr>
<td>Julie Will</td>
<td>JW Cons.</td>
<td>Consultant (Individual)</td>
<td>Computer science</td>
<td>Interface design: 10</td>
<td></td>
<td>200 hours</td>
</tr>
<tr>
<td>David Word</td>
<td>A Corp.</td>
<td>Consultant (A. Corp.)</td>
<td>Operations Research</td>
<td>Applications Programming: 2-3</td>
<td></td>
<td>200 hours</td>
</tr>
</tbody>
</table>

J. **Resource Share.** Include the type of support, if any, the Offeror might request from the Government, such as facilities, equipment, materials, or any such resources the Offeror is willing to provide at no additional cost to the Government to support the research effort. Cost sharing is not required from Offerors and is not an evaluation criterion but is encouraged where there is a reasonable probability of a potential commercial application related to the proposed research and development effort.

K. The names of other federal, state or local agencies or other parties receiving the proposal and/or funding the proposed effort. If none, state “None”. Concurrent submission of the proposal to other organizations will not prejudice its review but may impact IARPA’s decision to fund the effort. See 5.A.2.a.

L. **Research Data Management Plan. (RDMP).** Submit a RDMP that outlines how they will manage and preserve the Research Data, as defined below, collected or produced through the course of performance. The RDMP need not require the preservation of all Research Data: Offerors shall consider the cost and benefits of managing and preserving the Research Data in determining whether to preserve it. At a minimum, all Research Data associated with a peer-reviewed manuscript or final published article (hereinafter “Publications”) must be made publicly accessible by the award recipient before, on or at a reasonable time after the publication date. The Publications whose associated data must be covered by the RDMP are deliverables as described in Section 1.

Research Data is defined herein as the digital recorded factual material commonly accepted in the scientific community as necessary to validate research findings including data sets used to support scholarly publications, but does not include laboratory notebooks, preliminary analyses, drafts of scientific papers, plans for future research, peer review reports, communications with colleagues, or physical objects, such as laboratory specimens.

The RDMP must address the following:

- Describe the types of Research Data collected or produced in the course of the project. Include standards to be used for Research Data and metadata content and format.
• A plan for making the Research Data that underlie Publications digitally accessible to the public before or, at the time of publication or conference presentation, or within a reasonable time after publication. The requirement could be met by including the data as supplementary information to the Publication or by depositing the Research Data in a searchable, machine-readable and digitally accessible form suitable for repositories available to the public free of charge. Such repositories could be discipline-specific repositories, general purpose research data repositories or institutional repositories. The published article or conference paper should indicate how the public may access Research Data underlying the paper’s results and findings. Offerors should attempt to make the Research Data available for at least three years after published article or conference. (NOTE: Offerors shall make a best effort in identifying research data sets that may be used for Publications that occur after contract end. The Offeror shall deliver these data sets to the Government and make them available in repositories available to the public prior to the end of the period of performance, if not included as supplementary information to Publications.)

• Policies and provisions for sharing and preservation, including a) policies and provisions for appropriate protection of privacy, confidentiality, security, and IP, b) descriptions of tools, including software, needed to access and interpret the Research Data, and c) policies and provisions for re-use, re-distribution, and production of derivatives.

• If, for legitimate reasons (e.g., privacy, confidentiality, security, IP rights considerations; size of data sets, cost; time), the Research Data underlying the results of peer-reviewed publications or conference papers cannot be shared and preserved, the plan must include a justification citing such reasons.

In addressing these elements (e.g., types of data to be shared and preserved, standards to be used for data and metadata, repositories to be used for archiving data, timeframes for sharing and preservation), the RDMP should reflect the best practices of the relevant scientific discipline and research community. At a minimum, Research Data underlying Publications and associated metadata shall include an acknowledgement of IARPA support and a link to the associated Publication.

4.B.1.d. Section 4: Attachments

[NOTE: The attachments listed below shall be included with the proposal, if applicable, but do not count against the Volume 1-page limit.]

Attachment 1: Signed Academic Institution Acknowledgement Letter(s) (if applicable). A template is provided in Appendix A.

Attachment 2: IP Rights. A template is provided in Appendix A. This attachment is estimated not to exceed 4 pages and shall address the following:

Representation as to Rights. An Offeror shall provide a good faith representation that they either own or have sufficient licensing rights to all IP that will be utilized under their proposal.

Program-Specific IP Approach. IARPA requires sufficient rights to IP developed or used in the conduct of the proposed research to ensure that IARPA can successfully (a) manage the program and evaluate the technical output and deliverables, (b) communicate program information across Government organizations, and (c) support transition to and further use and development of the program results by IC users and others. IARPA anticipates that achieving these goals for the HIATUS program will necessitate a minimum of Unlimited Rights in all deliverables. However, there may be any number of other approaches to intellectual property rights to achieve IARPA’s program goals. As outlined in FAR 52.227-14, “Unlimited rights” means the rights of the
Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, in any manner and for any purpose, and to have or permit others to do so. In addressing their approach to IP rights, Offerors should (1) describe the intended use of patented invention(s) or data, including, technical data and computer software, in the conduct of the proposed research; (2) describe the rights being offered to the Government along with a justification if less than Unlimited Rights is being offered; (3) explain how IARPA will be able to reach its program goals (including transition) with the rights offered to the Government; (4) identify the cost to the Government to acquire additional or alternative rights beyond those being offered, if applicable; and (5) provide possible alternatives in any area in which the offered rights may be insufficient for IARPA to achieve its program goals (e.g., the possibility of future licensing of privately-developed software to U.S. Government agencies at a reasonable cost.)

Patented Inventions. Offerors shall include documentation using the format provided in Appendix A, proving ownership of or sufficient rights to all inventions (or inventions for which a patent application has been filed) that will be utilized under the proposal for the IARPA program. If a patent application has been filed for an invention that the proposal intends to utilize, but the application has not yet been made publicly available and contains proprietary information, the Offeror may provide only the serial number, inventor name(s), assignee names (if any), filing date, filing date of any related provisional application, and a summary of the patent title, together with either: (1) a representation that the Offeror owns the invention, or (2) proof of sufficient licensing rights in the invention. Offerors shall also indicate their intention to incorporate patented technology into any deliverable- i.e., if Offerors intend for any deliverable to embody any invention covered by any patent or patent application listed by the Offerors in Volume 1, Attachment 2, Offerors shall also specify in the Attachment the deliverable into which the Offerors expects to incorporate the invention. In doing so, the Government requests that Offerors further specify any rights offered to the Government for inventions that will be utilized in the program (beyond the implied license that accompanies a patent owner’s sale of a patented product).

Noncommercial Data. Offerors shall identify all noncommercial data, including technical data and computer software, that it plans to generate, develop and/or deliver under any proposed award instrument in which the Government shall acquire less than unlimited rights. In doing so, Offerors must assert (a) the specific restrictions the Government’s rights in those deliverables, (b) the basis for such restrictions, (c) the intended use of the technical data and noncommercial computer software in the conduct of the proposed research and development of applicable deliverables, and (d) a supporting rationale of why the proposed approach to data rights is in the Government’s best interest (please see program specific goals above). If no restrictions are intended, then the Offeror shall state “NONE.”

Commercial Data. Offerors shall identify all commercial data, including technical data and commercial computer software, that may be included in any deliverables contemplated under the research effort and assert any applicable restrictions on the Government’s use of such commercial data (please see program specific goals above). If no restrictions are intended, then the Proposer shall state “NONE.”

Data Developed with Mixed Funding. If mixed funding is anticipated in data generated, developed, and/or delivered under the research effort, the Government seeks at minimum “Government Purpose Rights” (GPR) for all noncommercial data deliverables; offering anything less shall be considered a weakness in the proposal. United States Government purposes include any activity in which the United States Government is a party, including cooperative agreements with international or multinational defense organizations, or sales or transfers by the United States Government to foreign governments or international organizations. Government purposes include competitive procurement, but do not include the rights to use, modify, reproduce, release, perform, display, or disclose technical data or computer software for commercial purposes or authorize others to do so.
Government Purpose Rights continue for a five-year period upon execution of the contract, and upon expiration of the five-year period, the Government obtains Unlimited Rights in the data.

**Open Source.** If Offerors propose the use of any open source data or freeware, any conditions, restrictions or other requirements imposed by that software shall also be addressed. Offerors should leverage the format in **Appendix A** for their response.

**Identification of Relevant Government Contracts.** For all technical data and computer software that an Offeror intends to deliver with other than unlimited rights that are identical or substantially similar to technical data and computer software that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract, the Offeror shall identify (a) the contract number under which the data, software, or documentation was produced; (b) the contract number under which, and the name and address of the organization to whom, the data and software was most recently delivered or shall be delivered; and (c) any limitations on the Government’s rights to use or disclose the data and software, including, when applicable, identification of the earliest date the limitations expire.

**Definitions.** For this solicitation, IARPA recognizes only the definitions of IP rights in accordance with the terms as set forth in the Federal Acquisition Regulation (FAR) part 27 or as defined herein. If Offerors propose IP rights that are not defined in FAR part 27 or herein, Offerors shall clearly define such rights in the “Intellectual Property Rights” Attachment of their proposal. Offerors are reminded of the requirement for prime contractors to acquire sufficient rights from subcontractors to accomplish the program goals.

**Evaluation.** The Government will use the asserted data rights during the evaluation process to evaluate the impact of any identified restrictions. The technical content of the “Intellectual Property Rights” Attachment shall include only the information necessary to address the proposed approach to IP; any other technical discussion in the attachment shall not be considered during the evaluation process.

**Attachment 3:** OCI Notification or Certification Template provided in Appendix A.

**Attachment 4:** Bibliography. A brief bibliography of relevant technical papers and research notes (published and unpublished) which document the technical ideas on which the proposal is based.

**Attachment 5:** Relevant Papers. Copies of not more than three relevant papers may be included in the submission. The Offerors shall include a one-page technical summary of each paper provided, suitable for individuals who are not experts in the field.

**Attachment 6:** Consultant Commitment Letters. If needed.

**Attachment 7:** Human Use Documentation, reference section 6.B.3

**Attachment 8:** Animal Use Documentation. **Not applicable**

**Attachment 9:** A Three Chart Summary of the Proposal. A PowerPoint summary that quickly and succinctly indicates the concept overview, key innovations, expected impact, and other unique aspects of the proposal. The format for the summary slides is included in Appendix A to this BAA and does not count against the page limit. **The Three Chart Summary shall include three (3) slides with one (1) chart on each slide.** Slide 1 should be a self-contained, intuitive description of the technical approach and performance. These slides may be used during the evaluation process to present a summary of the proposal from the Offeror’s view.

**Attachment 10:** Security Plan. (Not to exceed 5 pages). **Not applicable**

**Attachment 11:** RDMP (estimated as 2 to 3 pages). Template provided in Appendix A.

**Attachment 12:** Privacy Plan, reference section 1.D.3 (No page limit)

NOTE: This Volume is only required if the Offeror’s proposal has been selected for negotiation (see BAA Section 5.B and 5.C). The notification of selection for negotiation will be issued in writing by the CO and will include a request to submit the full Cost Volume within 10 business days or as otherwise authorized by the contracting officer.

IARPA anticipates awarding cost-type procurement contracts however, Offerors requesting other than a cost-type procurement contract (i.e., Firm Fixed Price (FFP) contract or other transaction) may be directed by the CO to provide “other than certified cost or pricing data” (reference FAR Part 15.4) and/or cost supporting information in a different format than described below. The CO will determine whether to grant the request for other than a cost-type procurement contract. Examples of requests that would be considered for approval include those from non-traditional contractors such as commercial entities that do not accept FAR-based cost contracts, small businesses, start-up companies, consortia that may include universities and non-profits or foreign companies; where cost-sharing or government participation in the work is appropriate; where flexibility not available under a procurement contract is needed; or where commercialization by industry is deemed advantageous to the Government.

Regardless of the type of instrument determined to be appropriate by the CO, the Offeror’s cost proposal shall contain sufficient factual information to establish the Offeror’s understanding of the project, the perception of project risks, the ability to organize and perform the work and to support the realism and reasonableness of the proposed cost, to the extent appropriate. IARPA recognizes that undue emphasis on cost may motivate Offerors to offer low-risk ideas with minimum uncertainty and to staff the effort with junior personnel in order to be in a more competitive posture. IARPA discourages such cost strategies. Cost reduction approaches that shall be received favorably include innovative management concepts that maximize direct funding for technology and limit diversion of funds into overhead.

4. B.2.a Section 1: Cover Sheet.

See Appendix B for the Cover Sheet Template


Offerors shall submit numerical cost and pricing data using Microsoft Excel. The Excel document, in the format provided in Appendix B, shall include intact formulas and shall not be hard numbered. The base and option period cost data should roll up into a total cost summary. The Excel files may be write-protected but shall not be password protected. The Cost/Price Volume shall include the following:

A. Completed Cost/Price Template - Offerors shall submit a cost element breakdown for the base period, each option period and the total program summary in the format provided in Appendix B.

B. Total cost broken down by major task.

C. Major program tasks by Government fiscal year.

D. A summary of projected funding requirements by month.

E. A summary table listing all labor categories used in the proposal and their associated direct labor rates, along with escalation factors used for each base year and option year.

F. A summary table listing all indirect rates used in the proposal for each base year and option year.
In addition to the above, supporting cost and pricing information shall be provided in sufficient detail to substantiate the Offeror’s cost estimates. Include a description of the basis of estimate (BOE) in a narrative for each cost element and provide supporting documentation, as applicable:

- **Direct Labor** – Provide a complete cost breakout by labor category, hours and rates (template available in Appendix B). Specify all Key Personnel by name and clearly state their labor category and proposed rate. Describe the basis of the proposed rates and provide a copy of the most recent Forward Pricing Rate Agreement (FPRA) and/or Forward Pricing Rate Recommendation (FPRR) with the Government. If Offerors do not have a current FPRA with the Government, provide payroll records or contingency hire letters with salary data to support each proposed labor category, including those for key individuals, and the most recent Forward Pricing Rate Proposal Submission, if applicable. Offeror should also address whether any portion of their labor rates is attributable to uncompensated overtime.

- **Labor Escalation Factor** – State the proposed escalation rate and the basis for that rate (e.g., based upon Global Insight indices, Cost Index or historical data). If the escalation rate is based upon historical data, provide data to demonstrate the labor escalation trend. Provide a sample calculation demonstrating application of the factor to direct labor.

- **Subcontracts** (to include consultants and Inter-organizational Transfers (IOTs)) – The Offeror is responsible for compiling and providing full subcontractor proposals with the Cost Volume. Subcontractor cost element sheets shall be completed for the base period, each option period and the total summary using the same format required for the prime contractor (See Appendix B). If available, provide a copy of the most recent Forward Pricing Rate Agreement (FPRA) and/or Forward Pricing Rate Recommendation (FPRR) with the Government. Consultant letter(s) of commitment shall also be attached.

Information shall be presented in Excel with intact formulas using the format provided in Appendix B and addressing the supporting cost information as outlined in Section 4 of the BAA. In addition to the full and complete subcontractor cost proposals, the Offeror shall also provide its analysis of each subcontractor’s proposal including justification for why the subcontractor was selected and its determination that the cost/price is fair and reasonable (Reference FAR Part 44 and FAR clause 52.244-2). If subcontracts have concerns about proprietary cost information, subcontractors can submit their detailed cost proposals directly to the CO.

- **Materials and Equipment** – Provide copies of quotes, bill of materials, historical data or any other information including Offeror’s analysis to support proposed costs.

- **Travel** – The proposed travel supporting detail shall include destination and purpose of the trip, number of trips, number of travelers and days per trip and price per traveler in sufficient detail to verify the BOE. Proposed travel costs shall comply with the limitations set forth in FAR Part 31. (See Appendix B.4 for sample format).

Proposed conference travel must have an immediate, direct, and tangible benefit to the Government such as providing a deliverable at the conference (e.g., gives a presentation, presents a paper or research findings that are sponsored in whole or in part by IARPA). Travel for personnel to simply attend a conference will not be approved as a direct charge to the contract.

- **Other Direct Costs (ODCs)** – ODCs shall be listed separately and supported by quotes, historical data or any other information including the Offeror’s analysis.

- **Indirect Costs** – The Offeror shall show indirect cost calculations, identify the proposed indirect rate by contractor fiscal year and program period (base, option period) and provide information on indirect cost pools and allocation bases for each year and program period involved. If a Government agency recently audited the Offeror’s indirect rates, the Offeror shall identify the agency that conducted the audit, when
the rates were approved and the period for which they are effective. Include a copy of this rate agreement. Absent current Government rate recommendations, it is incumbent on the Offeror to provide some other means of demonstrating indirect rate realism (e.g., 3 years of historical actual costs with applicable pools and bases). If proposed rates vary significantly from historical experience, the Offeror shall explain the variance.

Cost sharing – Describe the source, nature and amount of cost-sharing, if any. Reference Resource Share from Section 4 of the BAA.

Other Pricing Assumptions – Identify all pricing assumptions, that should be incorporated into the resulting award instrument (e.g., use of Government Furnished Property/Facilities/Information, access to Government Subject Matter Experts, etc.). Reference Resource Share from Section 4 of the BAA.

Facilities Capital Cost of Money (FCCM) – If proposing FCCM, the Offeror shall show FCCM cost calculations, identify the proposed FCCM factors by contractor fiscal year and program year and provide a copy of the Forward Price Rate Agreement (FPRA), Forward Price Rate System (FPRS) or Forward Pricing Rate Recommendation (FPRR), if available.

Profit/Fee - Identify the proposed profit or fee percentage and the proposed profit/fee base. Provide justification for your proposed profit or fee.

Systems - For the systems listed below, provide a brief description of the cognizant federal agency and audit results. If the system has been determined inadequate, provide a short narrative describing the steps your organization has taken to address the inadequacies and the current status. If a formal audit has been performed by a Government Agency, please provide a complete copy of the audit report or adequacy determination letter. If the system has never received a formal Government review and approval include a statement to that effect. Address whether your organization has contracts that are Cost Accounting Standards (CAS) covered and if so, whether they are subject to full or modified CAS coverage.

- Accounting system
- Purchasing system

Certified “cost or pricing data” may be requested for procurement contract awards that exceed the threshold for submittal as set forth in the FAR, unless the CO approves an exception from the requirement to submit cost or pricing data. (Reference FAR Part 15.403.)

4. C. Submission Details

4. C.1. Due Dates

See BAA General Information Section for proposal due dates and times.

4. C. 2 Proposal Delivery

Proposals (Volume 1 initially) shall be submitted electronically through the IARPA Distribution and Evaluation System (IDEAS). Offerors interested in providing a submission in response to this BAA shall first register by electronic means in accordance with the instructions provided on the following web site: https://iarpa-ideas.gov. Offerors who plan to submit proposals for evaluation are strongly encouraged to register at least one week prior to the due date for the first round of proposals. Offerors who do not register in advance do so at their own risk, and IARPA shall not extend the due date to accommodate such Offerors. Failure to register as stated shall prevent the Proposer’s submittal of documents.
After registration has been approved, Offeror’s should upload a proposal, (initially Volume 1 only), scanned certifications and permitted additional information in ‘pdf’ format, or as otherwise directed (Excel, PowerPoint, etc.). Offerors are responsible for ensuring a compliant and timely submission of their proposals to meet the BAA submittal deadlines. Time management to upload and submit is wholly the responsibility of the Offeror. Note: IDEAS will require Offerors to complete a proposal cover sheet within IDEAS at the time that the Volume 1 – Technical and Management Proposal is submitted. This is separate and distinct from the Technical and Cost Volume cover sheets referenced in 4.B.1.a. and 4.B.2.a. (also provided in Appendices A and B). Information requested within IDEAS will include basic cost information (Total funds requested from IARPA, proposed costs by option period and validity period). Please complete the requested information but DO NOT upload your Volume 2 – Cost Proposal. Directions for submittal of Volume 2 – Cost Proposal will be provided by the CO when Offerors are notified of selection for negotiations.

Upon completing the proposal submission, the Offeror shall receive an automated confirmation email from IDEAS. Please forward that automated message to DNI-IARPA-BAA-22-01@iarpa.gov. IARPA strongly suggests that the Offeror document the submission of their proposal package by printing the electronic receipt (time and date stamped) that appears on the final screen following compliant submission of a proposal to the IDEAS website.

Volume 1 submitted by any means other than IDEAS (e.g., hand-carried, postal service, commercial carrier and email) shall not be considered unless the Offeror attempted electronic submittal, but was unsuccessful and notified the Government using the following procedure. The Offeror shall send an e-mail to DNI-IARPA-BAA-22-01@iarpa.gov, prior to the proposal due date and time specified in the BAA and indicate that an attempt was made to submit electronically, and that the submittal was unsuccessful. This e-mail shall include contact information for the Offeror. Upon receipt of such notification, the Government will provide additional guidance regarding submission.

Volume 1 shall be submitted by the date and time specified in the BAA, General Information section, 7.2 Proposal Due Date for Initial Round of Selections, in order to be considered in the initial round. It is in IARPA’s sole discretion whether to evaluate proposals received after this date but before the BAA Closing Date set forth in 7.3. Selection remains contingent on the technical and funding availability evaluation factors. Proposals received after the BAA Closing Date are deemed to be late and will not be reviewed. Failure to comply with the submission procedures may result in the submittal not being evaluated.

Although classified proposals are not anticipated for this program, if an Offeror chooses to submit a classified proposal, the Offeror must first contact IARPA via DNI-IARPA-BAA-22-01@iarpa.gov for detailed submittal instructions. In no case shall classified information be uploaded into IDEAS.

4. D. Funding Restrictions

Facility construction costs are not allowable under this activity. Funding may not be used to pay for commercialization of technology.

SECTION 5: PROPOSAL REVIEW INFORMATION

5.A. Technical and Funding Availability Evaluation Factors

The factors used to evaluate and select proposals for negotiation for this Program BAA are described in the following paragraphs. Because there is no common SOW, each proposal shall be evaluated on its own merits and its relevance to the Program goals rather than against other proposals submitted in response to this BAA. The proposals shall be evaluated based on technical and funding availability factors. These are of equal importance. Within the technical evaluation factor, the specific technical criteria are in descending order of importance, as follows: Overall Scientific and Technical Merit, Effectiveness of Proposed Work
Plan, Contribution and Relevance to the IARPA Mission and Program Goal, Relevant Experience and Expertise, and Resource Realism. Specifics about the evaluation criteria are provided below.

Award(s) shall be made to an Offeror based on the technical and funding availability factors listed below, and subject to successful negotiations with the Government. Award shall not be made to Offeror(s) whose proposal(s) are determined not to be selectable. Offerors are cautioned that failure to follow submittal and proposal instructions may negatively impact their proposal evaluation or may result in rejection of the proposal for non-compliance.

5.A.1. Technical Evaluation Factor (technical criteria listed below)

5.A.1.a. Overall Scientific and Technical Merit

Overall scientific and technical merit of the proposal is substantiated, including unique and innovative methods, approaches, and/or concepts. The Offeror clearly articulates an understanding of the problem to be solved. The technical approach is credible and includes a clear assessment of primary risks and a means to address them. The proposed research advances the state-of-the-art.

5.A.1.b. Effectiveness of Proposed Work Plan

The feasibility and likelihood that the proposed approach will satisfy the Program’s milestones and metrics are explicitly described and clearly substantiated along with risk mitigation strategies for achieving stated milestones and metrics. The proposal reflects a mature and quantitative understanding of the program milestones and metrics, and the statistical confidence with which they may be measured. Any Offeror proposed milestones and metrics are clear and well-defined, with a logical connection to enabling Offeror decisions and/or Government decisions. The schedule to achieve the milestones is realistic and reasonable.

The roles and relationships of prime and sub-contractors are clearly delineated with all participants fully documented. Work plans shall demonstrate the ability to provide full Government visibility into and interaction with key technical activities and personnel, and a single point of responsibility for contract performance. Work plans shall also demonstrate that all Key Personnel and significant contributors have sufficient time committed to the Program to accomplish their described Program roles.

The requirement and rationale for and the anticipated use or integration of Government resources, including but not limited to all equipment, facilities, information, etc., are fully described including dates when such Government Furnished Property (GFP), Government Furnished Equipment (GFE), GFI or other similar Government-provided resources shall be required.

The Offeror’s RDMP is complete, addressing the types of data to be collected or produced, describing how each type of data will be preserved and shared, including plans to provide public access to peer reviewed publications and the underlying Research Data, or provides justifiable rationale for not doing so.

5.A.1.c. Contribution and Relevance to the IARPA Mission and Program Goal

The proposed solution meets the letter and intent of the stated program goals and all elements within the proposal exhibit a comprehensive understanding of the problem. The Offeror clearly addresses how the proposed effort shall meet and progressively demonstrate the Program goals. The Offeror describes how the proposed solution contributes to IARPA’s mission to invest in high-risk/high-payoff research that can provide the U.S. with an overwhelming intelligence advantage.

The Offeror’s proposed IP and data rights are consistent with the Government’s need to be able to effectively manage the program and evaluate the technical output and deliverables, communicate program information across Government organizations and support transition to and further use and development of the program results by IC users and others at a reasonable cost that is acceptable to the Government. The proposed approach to IP rights is in the Government’s best interest.
5. A.1.d Relevant Experience and Expertise
The Offeror’s capabilities, related experience, facilities, techniques, or unique combination of these, which are integral factors for achieving the proposal's objectives, shall be evaluated, as well as qualifications, capabilities, and experience of all Key Personnel and significant contributors critical in achieving the program objectives.

5. A.1.e Resource Realism
The proposed resources demonstrate a clear understanding of the program, a perception of the risks and the Offeror’s ability to organize and perform the work. The labor hours and mix are consistent with the technical approach and are realistic for the work proposed. Material, equipment, software, data collection and management, and travel, especially foreign travel, are well justified, reasonable, and required for successful execution of the proposed work.

5.A.2. Funding Availability Factor

5. A.2.a. Budget Constraints
The Government will seek to maximize the likelihood of meeting program objectives within program budget constraints. This may involve awarding one or more contracts. Note: If the Offeror has submitted the proposal to other federal, state or local agencies or other parties that may fund the proposed effort, it may impact IARPA’s decision to fund the effort.

5. A.2.b. Program Balance
The Government will consider IARPA’s overall mission and program objectives, which may include but are not limited to the following: broadening the variety of technical approaches to enhance program outcomes, transitioning the technology to Government partners, developing capabilities aligned with the priorities of the IC and national security.

5.B. Method of Evaluation and Selection Process
IARPA’s conducts impartial, equitable, comprehensive proposal reviews to select the source (or sources) whose offer meets the Government's technical, policy and programmatic goals. For evaluation purposes, a proposal is the document described in Section 4 of the BAA. Other supporting or background materials submitted with the proposal shall not be considered.

The contract award process for this BAA has two steps. The first step is selection for negotiations and is made based on the review of the technical and funding availability factors (See BAA Section 5.A.). The second step is negotiation and contract award. Contract award is contingent on CO determination of a fair and reasonable cost-price and agreement on terms and conditions.

Selection for negotiation will be conducted through a peer or scientific review process led by the PM. This process entails establishing a Scientific Review Panel (SRP) made up of qualified Government personnel who will review and assess each proposal’s strengths, weaknesses and risks against the technical evaluation criteria. If necessary, non-Government technical experts with specialized expertise may advise Government panel members and the PM. However, only Government personnel will make selection recommendations and decisions under this BAA.

Proposals will be reviewed individually and will not be compared against each other as they are not submitted in accordance with a common SOW. When SRP reviews are complete, the PM will prepare a recommendation to the IARPA Scientific Review Official (SRO) identifying proposals as selectable, selectable with modification, or not selectable based on consideration of all stated factors (technical and funding availability factors). The SRO will make the final decision as to selectability for negotiations. At
this point, Offerors will be notified in writing as to whether they have been determined selectable, selectable with modification, or not selectable.

5.C. Negotiation and Contract Award

After selection and before award, the CO will contact Offerors whose proposals were selected or selected with modifications to engage in negotiations. At that time, the CO will also request a full cost proposal, as described in BAA Section 4.B.2. The CO will review the cost proposal using the proposal analysis techniques described in FAR 15.404-1, as appropriate, to determine a fair and reasonable cost. The CO's evaluation will include review of proposed anticipated costs/prices of the Proposer and those of associate, participating organizations, to ensure the Offeror has fully analyzed the budget requirements, provided sufficient supporting information, has adequate systems for managing the contract (accounting, purchasing), and that data is traceable and reconcilable. The CO will also determine whether the prospective contractor meets the responsibility standards of FAR Section 9.104. Additional information and supporting data may be requested.

If proposed costs submitted are substantially different than the estimates provided in the technical proposal, then a contract may not be awarded.

Procurement contracts or other transactions, as determined by the contracting officer, shall be awarded to those Offerors whose proposals are deemed most advantageous to the Government, all stated evaluation factors considered, and pending the successful conclusion of negotiations.

5.D. Proposal Retention

Proposals shall not be returned upon completion of the source selection process. The original of each proposal received shall be retained at IARPA and all other non-required copies shall be destroyed. A certification of destruction may be requested, provided that the formal request is sent to IARPA via e-mail to DNI-IARPA-BAA-22-01@iarpa.gov within 5 days after notification of proposal results.

SECTION 6: AWARD ADMINISTRATION INFORMATION

6.A. Award Notices

As soon as practicable after the evaluation of a proposal is complete, the Offeror will be notified that: (1) its proposal has been selected for negotiations, or (2) its proposal has not been selected for negotiations.

6.B. Administrative and National Policy Requirements

6.B.1. Proprietary Data

IARPA treats all proposals as proprietary information and will disclose their contents only for the purpose of evaluation. All proposals containing proprietary data shall have the cover page and each page containing proprietary data clearly marked as containing proprietary data. It is the Offeror’s responsibility to clearly define to the Government what the Offeror considers proprietary data.

6.B.2. Intellectual Property

General. The Government may request additional information from the Offeror, as may be necessary, to evaluate the Offeror’s IP rights assertions. If Offerors do not identify any restrictions with respect to a particular deliverable, the Government shall assume in its review of the proposal that there are no restrictions on the Government’s use of such deliverables. Further, failure to provide full information may result in a determination that the proposal is not compliant with the solicitation, and the Government
reserves the right to reject a proposal if the Offeror does not appropriately address all required IP rights issues.

**IP Ownership.** Regardless of the scope of the Government’s rights, Offerors may freely use data for their own commercial purposes (unless restricted by the negotiated contract, U.S. export control laws or security classification). Therefore, data including technical data and computer software developed under any contract resulting from this solicitation may remain the property of the Offerors, subject to IARPA’s rights as set forth in the contract. IARPA seeks the rights to technical data and/or computer software leveraged, developed, or used for the HIATUS program in accordance with FAR 52.227-14. For inventions first conceived or actually reduced to practice under for this effort, IARPA will obtain a nonexclusive, nontransferable, irrevocable, paid-up license to practice, or have practiced for or on its behalf, such invention throughout the world; Offeror may elect to retain title as described in FAR 52.227-11.

**Indemnification.** Offerors expecting to use, but not to deliver, data or patentable inventions, including commercial open source tools in implementing their approach shall be required to indemnify the Government against legal liability arising from such use.

**Technical Data--Withholding of Payment.** If technical data specified to be delivered under a contract awarded under this solicitation is not delivered within the time specified by the contract or is deficient upon delivery (including having restrictive markings not specifically authorized by the contract), the CO is permitted, until such data are accepted by the Government, to withhold payment to the contractor of ten percent (10%) of the total contract price or amount unless a lesser withholding is specified in the contract. Payments may not be withheld, nor any other action taken pursuant to this paragraph when the contractor's failure to make timely delivery or to deliver such data without deficiencies arises out of causes beyond its control and without fault or negligence of the contractor. The withholding of any amount or subsequent payment to the contractor shall not be construed as a waiver of any rights accruing to the Government under the contract.

**6.B.3. Human Use**

All research involving human subjects, to include use of human biological specimens and human data, selected for funding must comply with the federal regulations for human subject protection, namely 45 CFR Part 46, Protection of Human Subjects.

Institutions awarded funding for research involving human subjects must provide documentation of a current Assurance of Compliance with Federal regulations for human subject protection, for example a Department of Health and Human Services, Office of Human Research Protection Federal Wide Assurance (http://www.hhs.gov/ohrp). All institutions engaged in human subject research, to include subcontractors, must also have a valid Assurance. In addition to a local IRB approval, IARPA will review and approve the HSR documentation before HSR may begin. However, IARPA does not require a secondary review by a Government IRB.

For all proposed research that will involve human subjects, the institution must provide evidence of or a plan for review by an Institutional Review Board (IRB) with the final proposal submission to IARPA as outlined in the management plan. (Reference Section 4 of the BAA). The IRB conducting the review must be the IRB identified on the institution’s Assurance. The informed consent document must comply with federal regulations (45 CFR Part 46).

The amount of time required to complete the IRB review/approval process may vary depending on the complexity of the research and/or the level of risk to study participants. Ample time should be allotted to complete the approval process. No IARPA funding can be used towards human subject research until ALL approvals are granted.
In limited instances, human subject research may be exempt from Federal regulations for human subject protection, for example, under Department of Health and Human Services, 45 CFR 46.101(b). Offerors claiming that their research falls within an exemption from Federal regulations for human subject protection must provide written documentation with their proposal that cites the specific applicable exemption and explains clearly how their proposed research fits within that exemption.

6.B.4. Animal Use

No research proposals involving animal subjects shall be accepted under this BAA.

6.B.5. Publication Approval

It is anticipated that research funded under this Program shall be unclassified research that shall not require a pre-publication review. However, Offerors should note that pre-publication approval of certain information may be required if it is determined that its release may result in the disclosure of sensitive intelligence information. A courtesy soft copy of any work submitted for publication shall be provided to the IARPA PM and the COTR a minimum of 5 business days prior to release in any forum.

6.B.6. Export Control

(1) The Offeror shall comply with all U.S. export control laws and regulations, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. Parts 120 through 130, and the Export Administration Regulations (EAR), 15 C.F.R. Parts 730 through 799, and any amendments thereto, in the performance of this contract. In the absence of available license exemptions/exceptions, the Offeror shall be responsible for obtaining the appropriate licenses or other approvals, if required, for exports of (including deemed exports) hardware, technical data, and software, or for the provision of technical assistance.

(2) The Offeror shall be responsible for obtaining export licenses, if required, before utilizing non-U.S. persons (as defined in the ITAR and EAR, as applicable) in the performance of this contract, including instances where the work is to be performed on-site at any Government installation (whether in or outside the United States), where the foreign person shall have access to export-controlled technologies, including technical data or software.

(3) The Offeror shall be responsible for all regulatory record keeping requirements associated with the use of licenses and license exemptions/exceptions.

(4) The Offeror shall appropriately mark all contract deliverables controlled by ITAR and/or EAR.

(5) The Offeror shall be responsible for ensuring that the provisions of this section apply to its subcontractors.

(6) The Offeror may be required to certify knowledge of and intended adherence to these requirements in the representations and certifications of the contract.

6.B.7. Subcontracting

It is the policy of the Government to enable small business and small disadvantaged business concerns to be considered fairly as sub-contractors to contractors performing work or rendering services as prime contractors or sub-contractors under Government contracts and to assure that prime contractors and subcontractors carry out this policy. Each Offeror that is selected for negotiation for award and is expected to be awarded a contract which exceeds the simplified acquisition threshold may be asked to submit a subcontracting plan before award in accordance with FAR 19.702(a) (1). The plan format is outlined in FAR 19.704.
Offerors shall declare teaming relationships in their Technical and Cost proposals and shall specify the type of teaming arrangement in place, including any exclusive teaming arrangements. IARPA neither promotes nor discourages the establishment of exclusive teaming agreements within Offeror teams. Individuals or organizations associated with multiple teams shall take care not to over-commit those resources being applied.

6.B.8. **Reporting**

Fiscal and management responsibility are important to the Program. Although the number and types of reports shall be specified in the award document, all Offerors shall, at a minimum, provide the CO, COTR and PM with monthly technical reports and monthly financial reports. The reports shall be prepared and submitted in accordance with the procedures contained in the award document and mutually agreed upon before award. Technical reports shall describe technical highlights and accomplishments, priorities and plans, issues and concerns, evaluation results, and future plans. Financial reports shall present an on-going financial profile of the project, including total project funding, funds invoiced, funds received, funds expended during the preceding month, and planned expenditures over the remaining period. Additional reports and briefing material may also be required, as appropriate, to document progress in accomplishing program metrics.

The Offeror shall prepare and provide a research report of their work by month 18 for Phases 1 and by month 30 for Phase 2 and month 42 for Phase 3. The reports shall be delivered to the CO, COTR and the PM. The reports shall include:

- Problem definition
- Findings and approach
- System design
- Possible generalization(s)
- Information on performance limitations and potential mitigation
- Anticipated path ahead
- Final identification of all commercial, third-party, or proprietary hardware, software, or technical data integrated into any deliverable and all applicable use restrictions.
- Any research products, including publications, data, and software, resulting from the project during the reporting period. The final report shall list in-progress scientific manuscripts and other research products.

6.B.9. **System for Award Management (SAM)**

Selected Offerors will be required to register in the SAM system prior to any award under this BAA unless otherwise directed by the Contracting Officer. Information on SAM registration is available at [http://www.sam.gov](http://www.sam.gov).

6.B.10. **Representations and Certifications**

Selected Offerors will be required to complete electronic representations and certifications at [http://www.sam.gov](http://www.sam.gov) and may also be required to complete additional representations and certifications prior to award, unless otherwise directed by the Contracting Officer.

6.B.11. **Lawful Use and Privacy Protection Measures**

All data gathered by the Offeror shall be obtained in accordance with U.S. laws and in compliance with the End User License Agreement, Copyright Laws, Terms of Service, and laws and policies regarding privacy
protection of U.S. Persons. Before using such data, the Offeror shall provide proof that the data was acquired in accordance with U.S. laws and regulations.

6.B.12. Public Access to Results

IARPA is committed to making the results of this research available and maximally useful to the public, industry, government, and the scientific community, in accordance with the policy set forth in the White House Office of Science and Technology Policy’s memorandum “Increasing Access to the Results of Federally Funded Scientific Research,” dated February 22, 2013, consistent with all other applicable law and policy; agency mission; resource constraints; and U.S. national, homeland, and economic security. (https://obamawhitehouse.archives.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf)

Upon acceptance for publication, the author’s final peer-reviewed manuscript(s) or conference paper(s) must be submitted to the IARPA-designated repository for public access, in accordance with the instructions on IARPA’s website at www.iarpa.gov. The Government will make the Publication available to the public through the repository at no charge, following a one-year embargo to preserve the rights of the publisher. The author must inform the publisher of rights that will be retained by the author and IARPA by including in the publishing/transfer of copyright agreement a provision substantially as follows:

“Journal acknowledges that Author retains the right to provide a copy of the final peer-reviewed manuscript (“Work”) to the Federal agency funding the research on which the Work is based upon acceptance for Journal publication, for public archiving as soon as possible but no later than 12 months after publication by Journal. Journal further acknowledges that the Federal Government, having funded the research upon which the Work is based, has certain irrevocable and non-exclusive contractual rights in the Work, which are not affected or altered in any way by this Agreement.”

Additionally, awardee must deposit the data underlying the results and findings in the publication in a suitable public repository, in accordance with the project’s Data Management Plan. If the metadata describing the underlying or supporting research data is not included in the Publication, the awardee must provide the metadata to the IARPA-designated public access repository, in accordance with the instructions on IARPA’s website at www.iarpa.gov.

IARPA will accept a final published article in lieu of a final peer-reviewed manuscript, provided the author has the right to provide the article and authorize IARPA to release the article publicly.

Data produced under the program, reports to IARPA, and program-related publications should be consistent with the Transparency and Openness Promotion Guidelines of the Center for Open Science, including preregistration of studies and analysis plans. (https://cos.io/our-services/top-guidelines/). To the extent possible, all reports to IARPA and all program-related publications should be consistent with statistical best practices described in (Psychological Science (2014) http://pss.sagepub.com/content/25/1/3). For example, wherever appropriate, effect sizes and confidence intervals (or the Bayesian equivalents) should be reported, and the data and methodology must be presented so that it is easily used for meta-analysis and independent re-analysis of the data. All Offerors must describe plans to ensure that the above requirements are satisfied.

6.B.13. Other Contract Requirements


The outline that follows is illustrative of the types of general provisions required by the Federal Acquisition Regulation for Fixed Price and/or Cost Reimbursable Research & Development type contracts and IARPA. This is not a complete list of provisions, nor does it contain specific wording. Copies of complete provisions will be made available prior to award. The Government reserves the right
to update this list at time of contract award.

**FAR General Provisions applicable to the solicitation:**

FAR 52.204-7  System for Award Management (OCT 2018)
FAR 52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (NOV 2021)
FAR 52.225-25 Prohibition on Contracting With Entities Engaging in Certain Activities or Transactions Relating to Iran Representation and Certifications (JUN 2020)
FAR 52.233-2  Service of Protest Service of Protest (Sept 2006)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Office of the Director of National Intelligence
IARPA R&D Contracts
Erskine Hall, Room 3S-301
Washington, D.C. 20511

An e-mail shall be sent to: DNI-IARPA-BAA-22-01@iarpa.gov

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

IA52.233-701  (U) Independent Review of Agency Protests

(U) An independent review of protests to the agency, as defined in FAR 33.103(d) (4), is available as an alternative to consideration by the contracting officer. Requests for an independent review shall be submitted directly to the Head of Contracting Activity, along with the protest.

**6.B.13.b. Clauses**

The outline that follows is illustrative of the types of general clauses required by the Federal Acquisition Regulation for Fixed Price and/or Cost Reimbursable Research & Development type contracts. This is not a complete list of clauses to be included, nor does it contain specific wording. A full list of applicable FAR clauses, to include full text IARPA Clauses, will be made available for review after selection and prior to contract award. The Government reserves the right to update this list at time of contract award.

**Examples of Anticipated FAR General Clauses:**

FAR 52.252-2  Clauses Incorporated by Reference (Feb 1998)
FAR 52.203-5  Covenant Against Contingent Fees (MAY 2014)
FAR 52.203-7  Anti-Kickback Procedures (JUN 2020)
FAR 52.203-17 Contractor Employee Whistleblower Rights and Requirement to Inform Employees of Whistleblower Rights (JUN 2020)
FAR 52.204-19 Incorporation by Reference of Representations and Certifications (DEC 2014)
FAR 52.204-21 Basic Safeguarding of Covered Contractor Information Systems (Jun 2016)
FAR 52.204-23 Prohibition on Contracting for Hardware, software, Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018)
FAR 52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment (AUG 2020)
FAR 52.216-7 Allowable Cost and Payment (Aug 2018)
FAR 52.217-8 Option to Extend Services. (Nov 1999)
FAR 52.222-35 Equal Opportunity for Veterans (JUN 2020)
FAR 52.222-36 Equal Opportunity for Workers With Disabilities (JUN 2020)
FAR 52.222-50 Combating Trafficking in Persons (OCT 2020)
FAR 52.223-18 Encouraging Contractor Policies to Ban Text Messaging While Driving (JUN 2020)
FAR 52.225-13 Restrictions on Certain Foreign Purchases (FEB 2021)
FAR 52.232-39 Unenforceability of Unauthorized Obligations (JUN 2013)
FAR 52.232-40 Providing Accelerated Payments to Small Business Subcontractors (DEC 2013)
FAR 52.233-4 Applicable Law for Breach of Contract Claim (OCT 2004)
FAR 52.242-15 Alt I Stop-Work Order (Aug 1989)
FAR 52.244-6 Subcontracts for Commercial Items (JUL 2021)
FAR 52.246-8 Inspection of Research and Development—Cost-Reimbursement (APR 1984)
FAR 52.246-7 Inspection of Research and Development-Fixed-Price (AUG 1996)
FAR 52.247-34 F.o.b. Destination (November 1991)
## Appendix A: Templates for Volume 1: Technical Proposal

### A.1 Cover Sheet for Volume 1: Technical Proposal

<table>
<thead>
<tr>
<th>(1) BAA Number</th>
<th>IARPA-BAA-22-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) Technical Area(s) – (TA)(s), if applicable</td>
<td></td>
</tr>
<tr>
<td>(3) Lead Organization Submitting Proposal</td>
<td></td>
</tr>
<tr>
<td>(4) Type of Business, Selected Among the Following Categories: “Large Business”, “Small Disadvantaged Business”, “Other Small Business”, “HBCU”, “MI”, “Other Educational”, or “Other Nonprofit”</td>
<td></td>
</tr>
<tr>
<td>(5) Contractor’s Reference Number (if any)</td>
<td></td>
</tr>
<tr>
<td>(6) Other Team Members (if applicable) and Type of Business for Each</td>
<td></td>
</tr>
<tr>
<td>(7) Proposal Title</td>
<td></td>
</tr>
<tr>
<td>(8) Technical Point of Contact to Include: Title, First Name, Last Name, Street Address, City, State, Zip Code, Telephone, Fax (if available), Electronic Mail (if available)</td>
<td></td>
</tr>
<tr>
<td>(9) Administrative Point of Contact to Include: Title, First Name, Last Name, Street Address, City, State, Zip Code, Telephone, Fax (if available), Electronic Mail (if available)</td>
<td></td>
</tr>
<tr>
<td>(10) Volume 1 no more than the specified page limit</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(11) Restrictions on Intellectual property rights details provided in Appendix A format?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(12) Research Data Management Plan included?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(13) OCI Waiver Determination, Notification or Certification [see Section 3 of the BAA] Included?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(13a) If No, is written certification included (Appendix A)?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(14) Are one or more U.S. Academic Institutions part of your team?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(14a) If Yes, are you including an Academic Institution Acknowledgment Statement with your proposal for each U.S. Academic Institution that is part of your team (Appendix A)?</td>
<td>Yes/No</td>
</tr>
<tr>
<td>(15) Total Funds Requested from IARPA and the Amount of Cost Share (if any)</td>
<td>$</td>
</tr>
<tr>
<td>(16) Date of Proposal Submission</td>
<td></td>
</tr>
</tbody>
</table>
Appendix A.2 Academic Institution Acknowledgment Letter

-- Please Place on Official Letterhead --

<Insert date>

To: Contracting Officer
   ODNI/IARPA
   Office of the Director of National Intelligence
   Washington, D.C. 20511

Subject: Academic Institution Acknowledgment Letter Reference: Executive Order 12333, As Amended, Para 2.7

This letter is to acknowledge that the undersigned is the responsible official of <insert name of the academic institution>, authorized to approve the contractual relationship in support of the Office of the Director of National Intelligence’s Intelligence Advanced Research Projects Activity and this academic institution.

The undersigned further acknowledges that he/she is aware of the Intelligence Advanced Research Projects Activity’s proposed contractual relationship with <insert name of institution> through IARPA-BAA-22-01 and is hereby approved by the undersigned official, serving as the president, vice-president, chancellor, vice-chancellor, or provost of the institution.

<Name> Date
<Position>
Appendix A.3 Intellectual Property Rights

[Please provide here your good faith representation of ownership or possession of appropriate licensing rights to all IP that shall be utilized under the Program.]

**Patents**

<table>
<thead>
<tr>
<th>Patent number (or application number)</th>
<th>Patent name</th>
<th>Inventor name(s)</th>
<th>Patent owner(s) or assignee</th>
<th>Incorporation into deliverable</th>
</tr>
</thead>
<tbody>
<tr>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(Yes/No; applicable deliverable)</td>
</tr>
</tbody>
</table>

(1) Intended use of the patented invention(s) listed above in the conduct of the proposed research:
(2) Description of license rights to make, use, offer to sell, or sell, if applicable, that are being offered to the Government in patented inventions listed above:
(3) How the offered rights will permit the Government to reach its program goals (including transition) with the rights offered:
(4) Cost to the Government to acquire additional or alternative rights, if applicable:
(5) Alternatives, if any, that would permit IARPA to achieve program goals:

**Data (Including Technical Data and Computer Software)**

<table>
<thead>
<tr>
<th>NONCOMMERCIAL ITEMS</th>
<th>Technical Data, Computer Software To be Furnished With Restrictions</th>
<th>Basis for Assertion</th>
<th>Asserted Rights Category</th>
<th>Name of Person Asserting Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
</tr>
</tbody>
</table>


**COMMERCIAL ITEMS**

<table>
<thead>
<tr>
<th>Technical Data, Computer Software To be Furnished With Restrictions</th>
<th>Basis for Assertion</th>
<th>Asserted Rights Category</th>
<th>Name of Person Asserting Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
<td>(LIST)</td>
</tr>
</tbody>
</table>

(1) Intended use of the data, including, technical data and computer software, listed above in the conduct of the proposed research:

(2) Description of Asserted Rights Categories, specifying restrictions on Government’s ability to use, modify, reproduce, release, perform, display, or disclose technical data, computer software, and deliverables incorporating technical data and computer software listed above:

(3) How the offered rights will permit the Government to reach its program goals (including transition) with the rights offered:

(4) Cost to the Government to acquire additional or alternative rights, if applicable:

(5) Alternatives, if any, that would permit IARPA to achieve program goals:
Appendix A.4 Organizational Conflicts of Interest Certification Letter

(Month DD, YYYY)

Office of the Director of National Intelligence
Intelligence Advanced Research Projects Activity (IARPA)
HIATUS Program
ATTN: Nina Leshock, Contracting Officer
Washington, DC 20511

Subject: OCI Certification

Reference: <Insert Program Name>, IARPA-BAA-22-01, (Insert assigned proposal ID#, if received)

Dear ______________________,

In accordance with IARPA Broad Agency Announcement IARPA-BAA-22-01, Organizational Conflicts of Interest (OCI), and on behalf of (Offeror name) I certify that neither (Offeror name) nor any of our subcontractor teammates has as a potential conflict of interest, real or perceived, as it pertains to the HIATUS program. Please note the following subcontractors and their proposed roles:

[Please list all proposed contractors by name with a brief description of their proposed involvement.]

If you have any questions, or need any additional information, please contact (Insert name of contact) at (Insert phone number) or (Insert e-mail address).

Sincerely,

(Insert organization name) (Shall be signed by an official that has the authority to bind the organization)

(Insert signature)

(Insert name of signatory)
(Insert title of signatory)
Appendix A.5 Three Chart Summary of the Proposal

Chart 1: Overview

- Self-contained, intuitive description of the technical approach and performance
  - Avoid acronyms! Especially those that are contractors specific.

Chart 2: Key Innovations

- Innovation 1
- Innovation 2
- Innovation 3

Chart 3: Expected Impact

- Deliverable 1: Performance and Impact
- Deliverable 2: Performance and Impact
- Unique aspects of the proposal
Appendix A.6 Research Data Management Plan (RDMP) BAA 22-01

The Offeror must address each of the elements noted below.

The RDMP shall comply with the requirements stated in Section 4 of the BAA. In doing so, it will support the objectives of the ODNI Public Access Plan at https://www.iarpa.gov/index.php/working-with-iarpa/public-access-to-iarpa-research

1. **Sponsoring IARPA Program** (required):
2. **Offeror** (i.e., lead organization responding to BAA) (required):
3. **Offeror point of contact** (required):
   The point of contact is the proposed principal investigator (PI) or his/her Designee.
   a. Name and Position:
   b. Organization:
   c. Email:
   d. Phone:
4. **Research data types** (required):
   Provide a brief, high-level description of the types of data to be collected or produced in the course of the project.
5. **Standards for research data and metadata content and format** (required):
   Use standards reflecting the best practices of the relevant scientific discipline and research community whenever possible.
6. **Plans for making the research data that underlie the results in peer-reviewed journal articles and conference papers digitally accessible to the public at the time of publication/conference or within a reasonable time thereafter (required):**
   The requirement could be met by including the data as supplementary information to a peer reviewed journal article or conference paper or by depositing the data in suitable repositories available to the public.
   a. **Anticipated method(s) of making research data publicly accessible:**
      ___ Provide dataset(s) to publisher as supplementary information (if publishers allow public access)
      ___ Deposit dataset(s) in Data Repository
      ___ Other (specify)_________________________
   b. **Proposed research data repository or repositories** (for dataset(s) not provided as supplementary information):
      Suitable repositories could be discipline-specific repositories, general purpose research data repositories, or institutional repositories, as long as they are publicly accessible.
   c. **Retention period, at least three years after publication of associated research results:**
      State the minimum length of time the data will remain publicly accessible.
   d. **Submittal of metadata to IARPA:**
      Offerors are required to make datasets underlying the results published in peer-reviewed journal or conferences digitally accessible to the public to the extent feasible. Here, the Proposer should state a commitment to submit metadata on such datasets to IARPA in a timely manner. Note: This does not supersede any requirements for deliverable data, as the award document may include metadata as a deliverable item.
7. **Policies and provisions for sharing and preservation** (as applicable):
   a. Policies and provisions for appropriate protection of privacy, confidentiality, security, and intellectual property:
b. Descriptions of tools, including software, which may be needed to access and interpret the data:
c. Policies and provisions for re-use, re-distribution, and production of derivative works:

8. **Justification for not sharing and/or preserving data underlying the results of peer-reviewed publications** (as applicable):

   If, for legitimate reasons, the data cannot be shared and preserved, the plan must include a justification detailing such reasons. Potential reasons may include privacy, confidentiality, security, IP rights considerations; size of data sets; cost of sharing and preservation; time required to prepare the dataset(s) for sharing and preservation.
## Appendix B: Templates for Volume 2: Cost Proposal

### Appendix B.1 Cover Sheet for Volume 2: Cost Proposal

<table>
<thead>
<tr>
<th>(1) BAA Number</th>
<th>IARPA-BAA-22-01</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) Technical Area(s) (TA)(s)</td>
<td></td>
</tr>
<tr>
<td>(3) Lead organization submitting proposal</td>
<td></td>
</tr>
<tr>
<td>(4) Type of Business, Selected Among the Following Categories: “Large Business”, “Small Disadvantaged Business”, “Other Small Business”, “HBCU”, “MI”, “Other Educational”, or “Other Nonprofit”</td>
<td></td>
</tr>
<tr>
<td>(5) Contractor’s Reference Number (if any)</td>
<td></td>
</tr>
<tr>
<td>(6) Other Team Members (if applicable) and Type of Business for Each</td>
<td></td>
</tr>
<tr>
<td>(7) Proposal Title</td>
<td></td>
</tr>
<tr>
<td>(8) Technical Point of Contact to Include: Title, First Name, Last Name, Street Address, City, State, Zip Code, Telephone, Fax (if available), Electronic Mail (if available)</td>
<td></td>
</tr>
<tr>
<td>(9) Administrative Point of Contact to Include: Title, First Name, Last Name, Street Address, City, State, Zip Code, Telephone, Fax (if available), Electronic Mail (if available)</td>
<td></td>
</tr>
<tr>
<td>(10) Contract type/award Instrument Requested: specify</td>
<td></td>
</tr>
<tr>
<td>(11) Place(s) and Period(s) of Performance</td>
<td></td>
</tr>
<tr>
<td>(12) Total Proposed Cost Separated by Basic Award and Option(s) (if any)</td>
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</tr>
<tr>
<td>(13) Name, Address, Telephone Number of the Offeror’s Defense Contract Management Agency (DCMA) Administration Office or Equivalent Cognizant Contract Administration Entity, if Known</td>
<td></td>
</tr>
<tr>
<td>(14) Name, Address, Telephone Number of the Offeror’s Defense Contract Audit Agency (DCAA) Audit Office or Equivalent Cognizant Contract Audit Entity, if Known</td>
<td></td>
</tr>
<tr>
<td>(15) Date Proposal was Prepared</td>
<td></td>
</tr>
<tr>
<td>(16) DUNS Number</td>
<td></td>
</tr>
<tr>
<td>(17) TIN Number</td>
<td></td>
</tr>
<tr>
<td>(18) CAGE Code</td>
<td></td>
</tr>
<tr>
<td>(19) Proposal Validity Period [minimum of 180 days]</td>
<td></td>
</tr>
<tr>
<td>(20) Cost Summaries Provided (Appendix B)</td>
<td></td>
</tr>
<tr>
<td>(21) Size of Business in accordance with NAICS Code 541712</td>
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</tbody>
</table>
Appendix B.2 Prime Contractor/Subcontractor Cost Element Sheet for Volume 2: Cost Proposal

Complete a Cost Element Sheet for the Base Period and each Option Period

<table>
<thead>
<tr>
<th>COST ELEMENT</th>
<th>BASE</th>
<th>RATE</th>
<th>AMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECT LABOR (List each labor category separately. Identify all Key Personnel by name.)</td>
<td></td>
<td>$</td>
<td></td>
</tr>
<tr>
<td># of Hours $</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL DIRECT LABOR</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>FRINGE BENEFITS</td>
<td></td>
<td>%</td>
<td>$</td>
</tr>
<tr>
<td>TOTAL LABOR OVERHEAD</td>
<td></td>
<td>%</td>
<td>$</td>
</tr>
<tr>
<td>SUBCONTRACTORS, IOTS, CONSULTANTS (List separately. See below table.)</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>MATERIALS &amp; EQUIPMENT (List each material and equipment item separately.)</td>
<td></td>
<td>Quantity</td>
<td>$ unit price</td>
</tr>
<tr>
<td>SOFTWARE &amp; IP (List separately. See table below.)</td>
<td></td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>TOTAL MATERIALS &amp; EQUIPMENT</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>MATERIAL OVERHEAD</td>
<td></td>
<td>%</td>
<td>$</td>
</tr>
<tr>
<td>TRAVEL (List each trip separately.)</td>
<td></td>
<td># of travelers</td>
<td>$ price per traveler</td>
</tr>
<tr>
<td>TOTAL TRAVEL</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>OTHER DIRECT COSTS (List each item separately.)</td>
<td></td>
<td>Quantity</td>
<td>$ unit price</td>
</tr>
<tr>
<td>TOTAL ODC's</td>
<td></td>
<td></td>
<td>$</td>
</tr>
<tr>
<td>G&amp;A</td>
<td></td>
<td>%</td>
<td>$</td>
</tr>
<tr>
<td>SUBTOTAL COSTS</td>
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<td>$</td>
</tr>
<tr>
<td>COST OF MONEY</td>
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<td>%</td>
<td>$</td>
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<td>TOTAL COST</td>
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<td>$</td>
</tr>
<tr>
<td>PROFIT/FEE</td>
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<td>%</td>
<td>$</td>
</tr>
<tr>
<td>TOTAL PRICE/COST</td>
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<td></td>
<td>$</td>
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<tr>
<td>GOVERNMENT SHARE, IF APPLICABLE</td>
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<td>$</td>
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<tr>
<td>RECIPIENT SHARE, IF APPLICABLE</td>
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<td>$</td>
</tr>
<tr>
<td>SUBCONTRACTORS/IOTS) &amp; CONSULTANTS PRICE SUMMARY</td>
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<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A SUBCONTRACTOR IOT &amp; CONSULTANT NAME</th>
<th>B SOW TASKS PERFORMED *</th>
<th>C TYPE OF AWARD</th>
<th>D SUB-CONTRACTOR, IOT &amp; CONSULTANT QUOTED</th>
<th>E COST PROPOSED BY PRIME FOR SUBCONTRACTOR, IOT &amp; CONSULTANT</th>
<th>F DIFFERENCE (Column D - Column E) IF APPLICABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTALS</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

*Identify Statement of Work, Milestone or Work Breakdown Structure paragraph, or provide a narrative explanation as an addendum to this Table that describes the effort to be performed.
Appendix B.3 - Software and IP Costs

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
<th>Date of Expiration</th>
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</thead>
<tbody>
<tr>
<td>(List)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Educational institutions and non-profit organizations as defined in FAR part 31.3 and 31.7, respectively, at the prime and subcontractor level may deviate from the cost template in Appendix B when estimating the direct labor portion of the proposal to allow for OMB guided accounting methods (2 CFR 220) that are used by their institutions. The methodology shall be clear and provide sufficient detail to substantiate proposed labor costs. For example, each labor category shall be listed separately; identify all Key Personnel and significant contributors provide hours/rates or salaries and percentage of time allocated to the project.
Appendix B.4 – Travel Costs Trip breakdown

<table>
<thead>
<tr>
<th></th>
<th>Trip Breakdown</th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td><strong>Base -</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Phase 1:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trip #</td>
<td>Month of Trip</td>
<td># of Travelers</td>
<td>Name of</td>
<td># of Days</td>
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Appendix B.5 – Contract Deliverables Table
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<td>Gov't Format</td>
<td>10th of each month</td>
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<td>Standard Distribution**</td>
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** Standard Distribution: 1 copy of the transmittal letter without the deliverable to the Contracting Officer. 1 copy of the transmittal letter with the deliverable to the Primary PM and COTR.