

IARPA
BROAD AGENCY ANNOUNCEMENT
IARPA-BAA-10-01



Automated Low-Level Analysis and Description of
Diverse Intelligence Video (ALADDIN)

Office of Incisive Analysis

IARPA-BAA-10-01

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BROAD AGENCY ANNOUNCEMENT: IARPA-BAA-10-01
ALADDIN

Table of Contents

| | |
|---|----|
| PART ONE: OVERVIEW INFORMATION | 3 |
| PART TWO: FULL TEXT OF ANNOUNCEMENT | 4 |
| SECTION 1: FUNDING OPPORTUNITY DESCRIPTION..... | 4 |
| 1. A. Program Overview | 4 |
| 1. B. Program Phases, Evaluation, and Data Resources..... | 7 |
| 1. C. Metrics, Milestones, Waypoints and Timelines | 10 |
| 1. D. Teaming..... | 16 |
| SECTION 2: AWARD INFORMATION | 16 |
| SECTION 3: ELIGIBILITY INFORMATION..... | 17 |
| 3. A. Eligible Applicants | 17 |
| 3. B. US Academic Organizations | 19 |
| 3. C. Cost Sharing/Matching..... | 19 |
| 3. D. Other Eligibility Criteria..... | 19 |
| SECTION 4: APPLICATION AND SUBMISSION INFORMATION..... | 20 |
| 4. A. Content and Form of Application Submission..... | 20 |
| 4. B. Proposal Content Specifics | 21 |
| 4. C. Submission Details | 28 |
| SECTION 5: APPLICATION REVIEW INFORMATION..... | 28 |
| 5. A. Evaluation Criteria..... | 28 |
| 5. B. Review and Selection Process..... | 30 |
| 5. C. Proposal Retention | 31 |
| SECTION 6: AWARD ADMINISTRATION INFORMATION | 31 |
| 6. A. Award Notices..... | 31 |
| 6. B. Administrative and National Policy Requirements | 31 |
| SECTION 7: AGENCY CONTACTS | 38 |
| APPENDIX A..... | 39 |
| APPENDIX B..... | 41 |
| APPENDIX C | 44 |
| APPENDIX D | 47 |

PART ONE: OVERVIEW INFORMATION

This publication constitutes a Broad Agency Announcement (BAA) and sets forth research areas of interest in the area of computer vision. Awards based on responses to this BAA are considered to be the result of full and open competition.

Federal Agency Name – Intelligence Advanced Research Projects Activity (IARPA), Incisive Analysis Office

Funding Opportunity Title – Automated Low-level Analysis and Description of Diverse Intelligence Video (ALADDIN)

Announcement Type – Initial

Funding Opportunity Number – IARPA-BAA-10-01

Catalog of Federal Domestic Assistance Numbers (CFDA) – 12.910 Research and Technology Development

Proposal Due Date: July 28, 2010

Anticipated individual awards – Multiple awards are anticipated.

Types of instruments that may be awarded – Procurement contract

Agency Points of contact

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BAA Summary: The ALADDIN Program solicits proposals to develop and demonstrate technology to automatically analyze massive numbers of open source video clips with respect to analyst-defined events and identify and describe the clips containing those events.

Questions: IARPA will accept questions about the BAA until July 14, 2010. A consolidated Question and Answer response will be publicly posted every few days on the IARPA website http://www.iarpa.gov/solicitations_aladdin.html; no answers will go directly to the submitter. Questions about administrative, technical or contractual issues must be submitted to the BAA e-mail address at dni-iarpa-baa-10-01@ugov.gov. If e-mail is not available, fax questions to 301-851-7672, Attention: IARPA-BAA-10-01. All requests must include the name, e-mail address (if available) and phone number of a point of contact for the requested information. Do not send questions with proprietary content.

PART TWO: FULL TEXT OF ANNOUNCEMENT

SECTION 1: FUNDING OPPORTUNITY DESCRIPTION

The Intelligence Advanced Research Projects Activity (IARPA) often selects its research efforts through the Broad Agency Announcement (BAA) process. The BAA will appear first on the FedBizOpps website, <http://www.fbo.gov>, then the IARPA website at <http://www.iarpa.gov>. The following information is for those wishing to respond to this Program BAA.

IARPA is seeking innovative solutions for the ALADDIN Program. The use of a BAA solicitation allows a wide range of innovative ideas and concepts. The ALADDIN Program is envisioned to begin First Quarter FY 2011 and end First Quarter FY 2016.

The ALADDIN Program solicits proposals to develop and demonstrate process-once/use-many technology to quickly and automatically analyze massive numbers of open source video clips¹ with respect to specific events of interest to an analyst.

1. A. Program Overview

1. A.1 Background

Massive numbers of video clips are generated daily on many types of consumer electronics and uploaded to the Internet. In contrast to videos that are produced for broadcast or from planned surveillance, the “unconstrained” video clips produced by anyone who has a digital camera present a significant challenge for manual as well as automated analysis. Such clips can include any possible scene and events, and generally have limited quality control.

Analysts who must work with such data are overwhelmed by its volume and lack of tools to probe it. Most current software tools that work with large collections of video clips focus on skimming to speed up the eyes-on-video/ears-on-audio process. Some advanced tools focus on automatic transcription and indexing of the speech from the audio signal. Other advanced tools apply computer vision techniques to extract features for unstructured “bag-of-words” search methods or to find video clips that are “similar” to others. No technology currently exists to provide a user with the information necessary to fully understand the content or temporal processes within these data.

The ALADDIN Program seeks to combine the state-of-the art in video extraction, audio extraction, knowledge representation, and search technologies in a revolutionary way to create fast, accurate, robust, and extensible technology that supports the multimedia analytic needs of the future.

¹ A “video clip” is a digital multimedia file that may consist of a video channel, aligned audio track(s), and metadata (such as date & time, camera type, and camera resolution). Open source video clips have typical playback times of 2-5 minutes, although some may be significantly longer or shorter.

1. A.2 High Level Overview

The ALADDIN Program will develop technology so that users can quickly search a very large open source video clip collection for the occurrence of specific events of interest to them, and obtain a detailed but easily understandable recounting of those occurrences.

In the ALADDIN Program, an “event”:

- is a complex activity occurring at a specific place and time;
- involves people interacting with other people and/or objects;
- consists of a number of human actions, processes, and activities that are loosely or tightly organized and that have significant temporal and semantic relationships to the overarching activity;
- is directly observable.

ALADDIN envisions an application where new video clips are continually added to an enormous collection. Users will create and run event queries against this collection and receive rapid responses. The number and diversity of the event queries, the size and dynamic nature of the collection, and the response time requirements preclude reprocessing the collection for each query. ALADDIN will address this challenge by creating a persistent symbolic representation of video clip content called the “Content Description Representation” (CDR) and by completely separating source data processing from query processing.

Users must have an effective way of querying the CDR. An ALADDIN query will be similar to the report that one analyst might provide to another when performing an event search in a video collection. This query will include a name and textbook-style definition for the event to be searched, a list of evidence that an analyst would use to identify the event, and a small set of video clips containing examples of the event. An ALADDIN system will ingest the query to create a custom “Event Agent” search algorithm that will find all of the occurrences of the specified event in the CDR. An event agent will rapidly and automatically produce a textual English-language recounting of each event occurrence it finds in the CDR, describing the particular scene, actors, objects, and activities involved. The potential utility of these recountings will be demonstrated via prototypes.

1. A.3 Description of Desired Research

The research in the program is focused on two key components: Content Description Representation and an Event Agent Generator. Proposed approaches must include both components. These are described in detail below:

Content Description Representation (CDR)

The core of the program is the development of the CDR. The CDR must be sufficiently general and expressive of event-related content in the processed video clips such that a wide variety of event queries can be implemented against it. It must also be quickly searchable. The generation of new CDR content from significant numbers of new video clips must be efficient². Processing time is therefore **critical** both with regard to CDR

² In an operational setting, a CDR is populated with new video clip entries over time as new clips are added to the collection. For ALADDIN research purposes, all test collections will be fixed in

generation and search. It is anticipated that the CDR will be created by innovative processing of the video and audio signals and embedded metadata in the source video clips. The Program's goals for CDR generation speed are provided in Table 2.

A standard computing system architecture for the CDR generation component is not defined so as to encourage the development of the most effective architecture for this component. Proposals must include a detailed description of the system architecture, and offerors should explain how their approach provides a proper balance of speed, system complexity, and cost. Proposals that fail to address system complexity and cost, or that propose architectures that are highly complex and/or costly, will not be favorably reviewed.

Proposals must contain a clear description of the research plan for the development and utilization of the CDR as well as a detailed assessment of risks and mitigation strategies of the proposed approach.

Event Agent Generator

This component will ingest an event query to produce an event agent to detect and recount occurrences of the specified event in the CDR. Research towards automated event query processing is encouraged, but semi-automated (e.g., interactive) methods are acceptable. The notional user of this component is a video analyst. Proposals must specify a COTS standard personal computing platform for implementation of the event agent generator and its event agents. The response time for event agents is extremely critical. The Program's goals for event agent execution speed are provided in Table 2.

The following must be produced by each event agent:

1. **Event detection scores:** For each video clip in the collection, compute a value between 0 (low) and 1 (high), representing the system's confidence in the hypothesis that the event is present in the clip. This output will be used to generate Detection Error Tradeoff (DET) curves to assess the accuracy of the system compared to the goals provided in Table 2 below.
2. **Event detection threshold:** For the event and the video clip test collection, compute a single value (between 0 and 1) which estimates the event detection score above which the system will assert that the event is detected in a clip. This output will demonstrate how well the system can estimate its accuracy a priori and choose a threshold that puts its operating point as close as possible to that specified in Table 2.
3. **Event recounting:** For each detected event occurrence in a video clip, an annotated recounting that describes the spatial and temporal details of the occurrence. The recounting must include key observations regarding the scene, people, objects, and activities pertaining to the event occurrence, and must be clear and concise.

size prior to evaluation and the video clips in each of these collections are to be processed *en masse* to create the collection's CDR.

In addition to providing a useful summary of the occurrence, the recounting should be structured to provide a means for the user to examine the evidence that was used to create the event detection assertion. Each observation in the recounting must be annotated with a confidence estimate and a spatio-temporal pointer³ into the source video clip from which it was derived. Proposals must include a complete description of how the recountings will be structured and represented. All ALADDIN performers will be required to participate in the development of a standard representation for this information for evaluation purposes.

ALADDIN performers will address two types of event detection and recounting tasks:

Pre-Specified event task: An event query with many video exemplars (100+) will be provided, where the query may be used to develop and extend the CDR as well as the corresponding event agent. The performers will be given a significant period of time to customize the CDR and event agent.

Ad Hoc event task: An event query with only a few (~10) video exemplars will be provided, where the query may only be used by the event agent generator to develop the corresponding event agent. The CDR must not be altered and the event agent must be quickly generated and run in a constrained period of time.

The proposal must identify risks associated with the development of the event agent generator and include appropriate mitigation strategies.

1. A.4 Research Activities that are not of interest to ALADDIN

The following technical areas are outside of the scope of the Program and shall not be proposed.

- Biometrics, soft biometrics, and related research areas.

The existing state-of-the-art in the following technical areas may be integrated into the proposed work. However, novel research in these areas shall not be proposed.

- Speech-to-text transcription, machine translation, natural language processing, and other human language technologies.
- Human-computer interfaces.

1. B Program Phases, Evaluation, and Data Resources

The following section describes the structure of the Program, how performance against the Program goals will be evaluated, and what data resources will be provided for the research and evaluation.

³ These provide a starting and ending frame in the raw video clip for temporally-relevant evidence as well as a within-frame pixel coordinate or bounding polygon for spatially-relevant evidence.

1. B.1 Program Phases

The Program execution is organized as a sequence of five one-year research and development (R&D) cycles. These cycles will be focused on achieving the annual interim and program-final speed and accuracy goals given in Section 1.C.1 and in developing prototypes with increasing functionality.

The Program is divided into three phases. The first phase (24 months) will contain two R&D cycles. During this phase, the CDR will be defined and populated and event agents will be created for pre-specified event queries.

The second phase (24 months) will contain two R&D cycles. During this phase, the technologies developed in the first phase will be refined and automated to handle ad hoc event queries. By the end of the phase, interactive prototypes will have been created that can be utilized by end users to create and implement their own event agents.

The third phase (12 months) will consist of one R&D cycle focused on achieving the final performance goals and the creation of a robust prototype.

1. B.2 Evaluation Cycle and Tasks

Progress will be evaluated and reported at specific points in the annual R&D cycle, as shown in Table 3.

Event Detection and Recounting Evaluations

Evaluations of the Program's primary tasks (event detection, and event recounting) will be conducted by the National Institute of Standards and Technology (NIST) and synchronized with the annual NIST Text REtrieval Conference Video Retrieval Evaluation series (TRECVID).⁴ The TRECVID cycle begins at the start of each calendar year and culminates with a technical workshop to discuss the research approaches and evaluation results in mid-November.

Each evaluation task in TRECVID is referred to by NIST as a "track". The TRECVID Multimedia Event Detection (MED) Track will be used to evaluate the performance of the event detection task. NIST will also implement an evaluation of the event recounting task in parallel with MED which will be referred to as the Multimedia Event Recounting (MER) track. A pilot MED evaluation is being implemented within TRECVID in 2010.⁵ The MED and MER evaluations will be used to assess progress against the Program's interim and final accuracy and speed goals as specified in Section 1.C.1. These evaluations will be timed to result in a report-out at the annual Fall TRECVID and ALADDIN PI workshops. Participation in these evaluations and in the annual TRECVID workshop is required.

MED evaluations will begin in the first year of the Program and continue through the end of the Program. The evaluations will begin with pre-specified event tasks and will add ad hoc event tasks in the third year of the program. MER evaluations will begin in the

⁴ See <http://trecvid.nist.gov/> for information about 2010 TRECVID evaluations and <http://www-nlpir.nist.gov/projects/tvpubs/tv.pubs.org.html> for proceedings from previous years.

⁵ The MED pilot evaluation is described in <http://www.nist.gov/itl/iad/mig/med.cfm>

second year of the Program and continue through the end of the Program. NIST will provide system output specifications for the MED task at the beginning of the Program. Performers will work with NIST during the first year of the Program to develop a standard output representation and metrics for the MER task.

The video clip data collection and event queries for pre-specified event tasks will be released near the beginning of each evaluation cycle. Event queries for ad hoc event tasks along with novel video clip data collections⁶ will be released later in the evaluation cycle. The required turnaround time for ad hoc event tasks will be on the order of weeks in the third and fourth year of the Program and days in the final year of the Program.

NIST will provide evaluation guidelines, submission requirements, event queries, and test collections at the appropriate times in the R&D/evaluation cycle. Submissions will be required to include detailed system description documentation detailing the algorithms, data, and configurations used.

The performers will provide their final prototypes for use in a real-time evaluation of ad hoc events in conjunction with the final Program PI meeting.

1. B.3 Data Resources

Two forms of data will be provided by NIST for the TRECVID MED and MER evaluations. These data will be used to address the Program research and evaluation requirements.

Video Clip Test Collections

The program will use four separate video clip data collections:

- One **Development Collection** that will be used for research, system training and development, waypoint assessment, and to evaluate pre-specified event task performance in the first year of the Program.
- One **Progress Collection** that will be used to evaluate pre-specified and ad hoc event task performance improvement over time for the same fixed data collection.
- Two **Novel Collections** that are similar in composition to the Progress Collection and that will be used to evaluate ad hoc event task performance in the last two years of the Program for new data collections.

Each of these collections will contain up to thousands of standard play hours comprised of up to tens of thousands of video clips from a variety of sources and genres. All video clips will be provided in MPEG-4⁷ format, although the content

⁶ Novel data collections refer to previously undistributed data collections that will be made available at the time the event queries are released.

⁷ The “Moving Pictures Expert Group” (MPEG) works on behalf of the International Standards Organization (ISO) to set standards for compression and transmission of audio and video. MPEG-4 became a standard in 1998, as ISO 14496 (http://www.iso.org/iso/iso_catalogue.htm), and is continuously evolving.

may have been re-encoded multiple times. The CODECs⁸ to access all of the data in the clips will be made available. NIST MED and MER evaluation plans will specify how each of these collections is to be used.

Event Queries

The specification of events will be provided in event queries as described in Section 1.A.2.

Proposed research must **not** include collection of additional video clip data resources. However, proposals may include the use of existing video clip and audio datasets, annotations on those data, and other general knowledge-related data if such resources are essential to the success of the offeror’s research approach. Proposals that require the use of such data must include:

- 1) Identification, source, licensing, and description of the data in the format provided in Table 1
- 2) Justification for the criticality of the data with regard to the proposed research and a clear description of how the data will be specifically employed in the research
- 3) Documented verification regarding the lawfulness of the collection and the method employed by the offeror to acquire it. All offeror-collected data must include documentation regarding informed consent. All publicly available data must include documentation regarding proper licensing for the proposed use of the data. See also Section 6.B.5 below.

Proprietary data resources **may** be proposed for use as long as they comply with the requirements above as well as those in Section 6.B.2.

Table 1: Additional Data Description

| Collection Name | Short Description | Size of Collection | Public? | Source and Licensing | Formats |
|-----------------|--|---|------------|---|--------------------|
| <i>ACME KB</i> | <i>World knowledge resource database</i> | <i>Over 100,000 articles containing 3 million general knowledge facts</i> | <i>Yes</i> | <i>ACME World Knowledge, Inc., Creative Commons License</i> | <i>.acme-facts</i> |

1. C Metrics, Milestones, Waypoints and Timelines

The Government will employ the following metrics, milestones, waypoints, and timelines to ensure that the research proceeds as planned, that the Program objectives are being met, and that risks are continuously assessed and mitigated.

⁸ A “CODEC” is any technology for compressing and decompressing data. A CODEC can be implemented in hardware, software or both. “MPEG” is a common CODEC for digital video.

1. C.1 Metrics

Accuracy Performance Metrics - MED

The MED outputs will be used to generate Missed Detection (MD) and False Alarm (FA) error statistics to assess progress with respect to the Program's stated accuracy goals (see Table 2) and to generate diagnostic Detection Error Tradeoff (DET) curves.

Accuracy Performance Metrics - MER

The metrics and specific interim and final accuracy goals for MER will be established in Phase 1 by the ALADDIN PM after a Program standard has been developed and a baseline has been generated by the performers.

Speed Performance Metrics

Processing speed is to be separately measured for CDR generation and for event agent execution. Specific processing speed goals are provided as the ratio of execution time (measured in processing-hours⁹) per standard play hour of the source video, and reported using the RT¹⁰ measure. The performer will submit execution time measures to the ALADDIN PM as part of the MED and MER evaluation submissions.

Table 2: Milestone Performance Goals

| | | | Phase 1 | | Phase 2 | | Phase 3 |
|----------|--|--------|---------------|---------------|---------------|---------------|---------------|
| Task | | Metric | Base Period | Option Year 1 | Option Year 2 | Option Year 3 | Option Year 4 |
| Accuracy | MED Error Rates for Pre-Specified Events | MD | 75% | 50% | 35% | 25% | 18% |
| | | FA | 6.0% | 4.0% | 2.8% | 2.0% | 1.44% |
| | MED Error Rates for Ad Hoc Events | MD | | | 75% | 50% | 35% |
| | | FA | | | 6.0% | 4.0% | 2.8% |
| Speed | CDR Generation | RT | Unconstrained | 10 | 1.0 | 0.5 | 0.2 |
| | Event Agent Execution (MED+MER) | RT | Unconstrained | 1 | 0.1 | 0.01 | 0.001 |

⁹ A "processing-hour" is one hour of computation on the performer's system.

¹⁰ The RT value specifies how many times real time (i.e., relative to the standard play duration of the source video clip) that the component executes (example: RT=0.5 means execute in half the play time).

1. C.2 Milestones

Phase 1 Milestones

Base Year

- CDR defined
- CDR generated from Development Collection
- Event agents (MED only) implemented for 10 pre-specified event queries that meet the accuracy goals given in Table 2
- Components and methodologies documented for the implemented event agents

Option Year 1

- CDR refined
- CDR generated from Progress Collection with speed specified in Table 2
- Event agents (MED+MER) implemented for 20 pre-specified event queries that meet the accuracy and speed goals given in Table 2
- Components and methodologies documented for the implemented event agents

Phase 2 Milestones

Option Year 2

- CDR refined
- CDR generated from Progress Collection with speed goal specified in Table 2
- Event agents implemented for 30 pre-specified event queries that meet the accuracy and speed goals specified in Table 2
- Event agents implemented for 10 ad hoc event queries (with turnaround in weeks) that meet the accuracy and speed goals given in Table 2
- Components and methodologies documented for the implemented event agents

Option Year 3

- CDR refined
- CDR generated from Progress Collection with speed goal specified in Table 2
- Event agents implemented for 40 pre-specified event queries using the Progress Collection CDR that meet the accuracy and speed goals specified in Table 2
- CDR generated from first Novel Collection that meets the speed goal specified in Table 2
- Event agents implemented for 10 ad hoc event queries (with turnaround in weeks) using the Novel Collection CDR that meet the accuracy and speed goals given in Table 2
- Components and methodologies documented for the implemented event agents
- Prototype allows non-expert users to create and run novel event agents

Phase 3 Milestones

Option Year 4

- CDR refined
- CDR generated from Progress Collection with speed goal specified in Table 2
- Event agents implemented for 50 pre-specified event queries using the Progress Collection CDR that meet the accuracy and speed goals specified in Table 2

- CDR generated from second Novel Collection that meets the speed goal specified in Table 2
- Event agents implemented for 10 ad hoc event queries (with turnaround in days) using the Novel Collection CDR that meet the accuracy and speed goals given in Table 2
- Components and methodologies documented for implemented event agents
- Live prototype demonstration of CDR generation, agent generation, and use

1. C.3 Waypoints

Offerors are to identify and address waypoints in their approaches that provide the Government with insight into the development of the key aspects of the research beyond the annual Program evaluations. These waypoints are to consist of mid-term self-evaluations of the key detection, classification, modeling, estimation, and other critically important research and are to be reported by the performer at the Spring Joint PI meetings, according to the schedule shown in Table 3. Proposals must include rationale as well as an evaluation plan for each of these waypoints. This plan must include waypoint definitions, metrics, performance goals, additional data/annotations if required, and schedule. Waypoints must provide a clear measure of progress toward meeting the Program milestones.

1. C.4 Timeline

The Government has established a meeting and deliverable schedule to ensure that the research proceeds as planned. The timeline is given in Table 3. The location of the PI meetings will rotate between the Washington DC area (fall meetings) and locations that are convenient to the performers (spring meetings).

Table 3: Notional ALADDIN Timeline

| Date | Event | Description/Purpose |
|--------------------|-------------------------|---|
| Phase 1 | | |
| Base Period | | |
| Month 1 | Kick-off Meeting | <ul style="list-style-type: none"> • Meeting in Washington DC area to communicate ALADDIN vision and expectations • Provide evaluation overview and data sets |
| Month 4 | Site Visit | <ul style="list-style-type: none"> • Review research results |
| Month 6 | Spring Joint PI Meeting | <ul style="list-style-type: none"> • Review research results • Assess progress against Performer's Waypoints |
| Month 9 | Site Visit | <ul style="list-style-type: none"> • Review research |

| Date | Event | Description/Purpose |
|----------------------|--|--|
| | | results |
| Month 10 | MED Evaluation Submission | <ul style="list-style-type: none"> Deliver MED submission to NIST |
| Month 11 | Joint PI Meeting | <ul style="list-style-type: none"> Meeting in Washington DC area to discuss results of evaluation and present research progress |
| Month 12 | Complete Annual cycle | <ul style="list-style-type: none"> End of base year |
| Month 12 | Notification of Option Year Award | <ul style="list-style-type: none"> Performers are notified of option year selection |
| Option Year 1 | | |
| Month 14 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 18 | Spring Joint PI Meeting | <ul style="list-style-type: none"> Review research results Assess progress against Performer's Waypoints |
| Month 21 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 22 | MED Evaluation Submission MER Evaluation Submission | <ul style="list-style-type: none"> Deliver submissions to NIST |
| Month 23 | Joint PI Meeting | <ul style="list-style-type: none"> Meeting in Washington DC area to discuss results of evaluation and present research progress |
| Month 24 | Complete Annual Cycle | <ul style="list-style-type: none"> End of option year 1 |
| Month 24 | Notification of Option Year Award | <ul style="list-style-type: none"> Performers are notified of option year selection |
| Phase 2 | | |
| Option Year 2 | | |
| Month 26 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 30 | Spring Joint PI Meeting | <ul style="list-style-type: none"> Review research results Assess progress |

| Date | Event | Description/Purpose |
|----------------------|--|---|
| | | against Performer's Waypoints |
| Month 33 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 34 | MED Evaluation Submission MER Evaluation Submission | <ul style="list-style-type: none"> Deliver submissions to NIST |
| Month 35 | Joint PI Meeting | <ul style="list-style-type: none"> Meeting in Washington DC area to discuss results of evaluations and present research progress |
| Month 36 | Complete Annual Cycle | <ul style="list-style-type: none"> End of option year 2 |
| Month 36 | Notification of Option Year Award | <ul style="list-style-type: none"> Performers are notified of option year selection |
| Option Year 3 | | |
| Month 40 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 42 | Spring Joint PI Meeting | <ul style="list-style-type: none"> Review research results Assess progress against Performer's Waypoints |
| Month 45 | Site Visit | <ul style="list-style-type: none"> Review research results |
| Month 46 | MED Evaluation Submission MER Evaluation Submission | <ul style="list-style-type: none"> Deliver submissions to NIST |
| Month 47 | Joint PI Meeting | <ul style="list-style-type: none"> Meeting in Washington DC area to discuss results of evaluations and present research progress |
| Month 48 | Complete Annual Cycle | <ul style="list-style-type: none"> End of option year 3 |
| Month 48 | Notification of Option Year Award | <ul style="list-style-type: none"> Performers are notified of option year selection |
| Phase 3 | | |
| Option Year 4 | | |
| Month 52 | Site Visit | <ul style="list-style-type: none"> Review research results |

| Date | Event | Description/Purpose |
|----------|--|--|
| Month 54 | Spring Joint PI Meeting | <ul style="list-style-type: none"> • Review research results • Assess progress against Performer's Waypoints |
| Month 57 | Site Visit | <ul style="list-style-type: none"> • Review research results |
| Month 58 | MED Evaluation Submission MER Evaluation Submission | <ul style="list-style-type: none"> • Deliver submissions to NIST |
| Month 59 | Joint PI Meeting Live Demonstration/Evaluation | <ul style="list-style-type: none"> • Meeting in Washington DC area to discuss final Program results and demonstration of prototypes |
| Month 60 | Complete Program | <ul style="list-style-type: none"> • End of option year 4 |

1. D Teaming

Offerors should carefully determine the diversity of resources that will be required to assure the highest probability of success against the ALADDIN Program goals. Offerors must demonstrate appropriate expertise and technical balance within their teams with regard to the proposed research. Such expertise may include audio processing, computer vision, cognitive science, database management, information extraction, information retrieval, knowledge management, machine learning, multimedia processing, natural language processing, software engineering, and other disciplines that are critical to the research effort.

Because the Program requires a highly-integrated multidisciplinary approach, the management plan must demonstrate strengths in team management and sound processes for coordination, communication, risk mitigation, and succession planning.

The proposal should clearly explain the organization of the team, consistent with the matrix addressed under Section 4.B.1. It should identify all of its key members along with their technical abilities and expected Program contributions, with detailed tasking and references to associated milestones. There should be a single point of contact that represents the team in its contacts with IARPA. Additionally, IARPA should have visibility into, and access to, all components of the team and its activities.

SECTION 2: AWARD INFORMATION

The ALADDIN Program is envisioned as a five (5) year effort that is intended to begin in the fall of 2010. The Program will consist of a base period of 12 months with four (4) pre-priced option years. Costs associated with the commercialization of technology are not covered under this solicitation.

This BAA will result in awards for all phases of the Program.

Funding for Optional Period(s) will depend upon performance during the Base Period, (and succeeding Optional Periods), as well as Program priorities, the availability of funding, and IARPA priorities. Funding of Option Periods is at the sole discretion of the Government. Participants considered for funding in the Option Period(s) will be those teams that have made significant progress in the Base Period (and succeeding Optional periods) and have correctly understood and contributed to the overarching goals of the Program. Teams that offer only minor enhancements to the current state of the art will not be invited to continue with the Program.

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

The Government reserves the right to select for negotiation all, some, one 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 the Source Selection Authority determines them to be necessary. If the proposed effort is inherently divisible and nothing is gained from the aggregation, offerors should consider submitting it as multiple independent efforts. Additionally, IARPA reserves the right to accept proposals in their entirety or to select only portions of proposals for negotiations for award. In the event that IARPA desires to award only portions of a proposal, negotiations may be opened with that offeror.

Awards under this BAA will be made to offerors on the basis of the evaluation criteria listed in 5.A, program balance, and availability of funds. The Government anticipates that proposals selected for negotiation will result in a procurement contract. However, the Government reserves the right to negotiate the type of award instrument it determines appropriate under the circumstances.

Offerors whose proposals are accepted for funding will be contacted before award 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 on contract terms, conditions, and cost/price within a reasonable time.

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 (HBCUs), Small Businesses, Small Disadvantaged Businesses and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals; however, no portion of this announcement will be set aside for these organizations' participation due to the impracticality of reserving discrete or severable areas for exclusive competition among these entities. Other Government Agencies, Federally Funded Research and Development Centers (FFRDCs), University Affiliated Research Centers (UARCs), and any other similar type of organization that has 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.

Only U.S. organizations or institutions¹¹ may prime and submit proposals to the ALADDIN BAA. Additionally, at least twenty percent (20%) of the principals of the team (as measured by FTEs) must be from U.S. organization(s) or institution(s). Foreign participants and/or individuals may participate to the extent that such participants 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, offerors should carefully consider the roles and responsibilities of foreign participants as they pursue teaming arrangements to propose to the ALADDIN BAA.

3. A.1. Procurement Integrity, Standards of Conduct, Ethical Considerations and Organizational Conflicts of Interest (OCI)

"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.

If a prospective offeror, or any of its proposed subcontractor teammates, believes that a potential conflict of interest exists or may exist (whether organizational or otherwise), the offeror should promptly raise the issue with IARPA and submit a waiver request by e-mail to the mailbox address for this BAA at dni-iarpa-baa-10-01@ugov.gov. All waiver requests must be submitted through the offeror, regardless of whether the waiver request addresses a potential OCI for the offeror or one of its subcontractor teammates. A potential conflict of interest includes but is not limited to any instance where an offeror, or any of its proposed subcontractor teammates, is providing either scientific, engineering and technical assistance (SETA) or technical consultation to IARPA. In all cases, the offeror shall identify the contract under which the SETA or consultant support is being provided. Without a waiver from the IARPA Director, neither an offeror, nor its proposed subcontractor teammates, can simultaneously provide SETA support or technical consultation to IARPA and compete or perform as a Performer under this solicitation.

All facts relevant to the existence of the potential conflict of interest, real or perceived, should be disclosed in the waiver request. The request should also include a proposed plan to avoid, neutralize or mitigate such conflict. The offeror, or subcontractor teammate as appropriate, shall certify that all information provided is accurate and

¹¹ "U.S. organization or institution" means any corporation, business association, partnership, trust, academic institution, society or any other entity or group that is incorporated or organized to do business in the United States. It specifically excludes any foreign corporation, business association, partnership, trust, academic institution, society or any other entity or group that is not incorporated or organized to do business in the United States, as well as international organizations, foreign governments and any agency or subdivision of foreign governments.

complete, and that all potential conflicts, real or perceived, have been disclosed. It is recommended that an offeror submit this request as soon as possible after release of the BAA before significant time and effort are expended in preparing a proposal. If, in the sole opinion of the Government, after full consideration of the circumstances, the conflict situation cannot be resolved, the request for waiver will be denied, and any proposal submitted by the offeror that includes the conflicted entity will be withdrawn from consideration for award.

As part of their proposal, offerors who have identified any potential conflicts of interest shall include either an approved waiver signed by the IARPA Director or a copy of their waiver request. Otherwise, offerors shall include in their proposal 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 D.

If, at any time during the solicitation or award process, IARPA discovers that an offeror has a potential conflict of interest, and no waiver request has been submitted by the offeror, IARPA reserves the right to immediately withdraw the proposal from further consideration for award.

Offerors are strongly encouraged to read “Intelligence Advanced Research Projects Activity’s (IARPA) Approach to Managing Organizational Conflicts of Interest (OCI)”, found on IARPA’s website at http://www.iarpa.gov/IARPA_OCI_081809.pdf.

3. B. US Academic Organizations

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.”

It is highly recommended that offerors submit with their proposal a completed and signed Academic Institution Acknowledgement Letter for each U.S. academic organization that is a part of their team, whether the academic organization is serving in the role of prime, or a subcontractor or consultant at any tier of their team. A template of the Academic Institution Acknowledgement Letter is enclosed in this BAA at Appendix A. It should be noted that an appropriate senior official from the institution, typically the President, Chancellor, Provost, or other appropriately designated official must sign the completed form. Note that this paperwork **must** be completed before IARPA can enter into any negotiations with any offeror when a U.S. academic organization is a part of its team.

3. C. Cost Sharing/Matching

Cost sharing is not required and is not an evaluation criterion.

3. D. Other Eligibility Criteria

3. D.1. Collaboration Efforts

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

SECTION 4: APPLICATION AND SUBMISSION INFORMATION

This notice with addendums constitutes the total BAA and contains all information required to submit a proposal.

4. A. Content and Form of Application Submission

4. A.1. Proposal Information

Proposals must be received by the time and date specified in section 4.C.1 in order to be considered during the initial round of selections. IARPA may evaluate proposals received after this date for a period of up to one year from the date of initial posting on FedBizOpps. Selection remains contingent on availability of funds.

The typical proposal should express a consolidated effort in support of one or more related technical concepts or ideas. Disjointed efforts should not be included in a single proposal.

Offerors should submit proposals for a Base Period of 12 months plus 4 possible 12-month Option Years.

The Government intends to use employees of Booz Allen Hamilton to provide expert advice regarding portions of the proposals submitted to the Government. Booz Allen Hamilton will also provide logistical support in carrying out the evaluation process. These personnel will 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 purpose stated above. If offerors do not send notice of objection to this arrangement, the Government will 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 should be directed by e-mail to dni-iarpa-baa-10-01@ugov.gov. Proposals must be mailed to the address provided in Section 4.C.2. Proposals may **not** be submitted by hand, e-mail or fax; any such proposals received in this manner will be disregarded. See below for proposal submission instructions.

Offerors must submit two hard copies and one soft copy of their proposals: one original hard copy with original signatures; one hard copy with original or copied signatures; and 1 electronic copy with Volume 1, Volume 2 and any permitted, additional information (.pdf format preferred) on a CD-ROM. Both hard copies and the CD must be clearly labeled with the following information: IARPA-BAA-10-01, the offeror's organization, the proposal title (short title recommended), and copy # of #.

Please note that reviewers receive the electronic copy submitted by CD. Hard copies are only for archival purposes. In case of inconsistencies between the hard copy and the electronic copy, the electronic copy takes precedence.

4. A.2. Proposal Format

All proposals must be in the format given below. Nonconforming proposals may be rejected without review. Proposals shall consist of two volumes: "Volume 1 - Technical and Management Proposal" and "Volume 2 - Cost Proposal." All pages shall be printed on 8-1/2 by 11 inch paper with type not smaller than 12 point. Smaller font may be used for figures, tables and charts. The page limitation for full proposals includes all figures, tables, and charts. All pages must be numbered. Unnecessarily elaborate brochures or presentations beyond what is sufficient to present a complete and effective proposal are not acceptable and will be discarded without review.

4. A.3. Proposal Classification

The Government anticipates that proposals submitted under this BAA will be unclassified. In the event that an offeror chooses to submit a classified proposal or submit any documentation that may be classified, the submissions must be appropriately marked and submitted in accordance with section 6.B.1, below.

4. B Proposal Content Specifics

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

Volume 1 – Technical & Management Proposal

Section 1 - Cover Sheet & Transmittal Letter
Section 2 – Summary of Proposal
Section 3 – Detailed Proposal
Section 4 – Additional Information

Volume 2 – Cost Proposal

Section 1– Cover Sheet
Section 2 – Detailed Estimated Cost Breakdown

4. B.1 Volume 1, Technical and Management Proposal {Limit of 30 pages}

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. The submission of other supporting materials along with the proposal is strongly discouraged and will not be considered for review. Except for the cover sheet, transmittal letter, signed Academic Institution Acknowledgement Letter(s) if required, OCI waiver/certification, Human Use documentation if applicable (See Section 6.B.5), bibliography, and relevant papers, Volume 1 shall not exceed 30 pages. Any pages exceeding this limit will be removed and not considered during the evaluation process. Full proposals must be accompanied by an official transmittal letter. All full proposals must be written in English.

Section 1: Cover Sheet & Transmittal Letter

A. Cover sheet:

- (1) BAA number
- (2) Lead organization submitting proposal

- (3) Type of business, selected among the following categories: "LARGE BUSINESS", "SMALL DISADVANTAGED BUSINESS", "OTHER SMALL BUSINESS", "HBCU", "MI", "OTHER EDUCATIONAL", OR "OTHER NONPROFIT"
- (4) Contractor's reference number (if any)
- (5) Other team members (if applicable) and type of business for each
- (6) Proposal title
- (7) 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)
- (8) 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)
- (9) OCI waiver or waiver request [see Section 3.A.1.] included? Yes/No
- (9a) If no OCI, a written certification **must** be included (Appendix D letter template)
- (10) Are one or more U.S. Academic Organizations part of your team? Yes/No
- (10a) If Yes, are you including an Academic Institution Acknowledgement Statement with your proposal for each Academic Organization that is part of your team? Yes/No
- (11) Total funds requested from IARPA and the amount of cost share (if any)
- (12) Date proposal was submitted.

B. Official Transmittal Letter.

Section 2: Summary of Proposal

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 and 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. Offerors must address:

Innovative claims for the proposed research. This section is the centerpiece of the proposal and should succinctly describe the uniqueness and benefits of the proposed approach relative to the state-of-the-art and alternate technologies and approaches.

Summary of the products, transferable technology and deliverables associated with the proposed research results. Measurable deliverables should be defined that show progress toward achieving the stated Program Milestones. Include in this section all proprietary claims to the results, prototypes, intellectual property, or systems supporting and/or necessary for the use of the research, results, and/or prototype. If there are no proprietary claims, this should be stated. Should no proprietary claims be made, Government rights will be unlimited.

Schedule and milestones for the proposed research, including overall estimates of cost for each task. Summarize, in table form, the cost, schedule and milestones for the proposed research, including estimates of cost for each deliverable, total cost and company cost share, if applicable. Do not include proprietary information with the milestones.

Overview of the technical approach and plan. Technical rationale, technical approach and constructive plan for accomplishing the technical goals that realize the innovative claims and deliverables. (This section will be supplemented with a more detailed plan in Volume 1, Section 3 of the proposal.)

Related research. General discussion of other research in this area.

Project contributors. Offerors must include a clearly defined organizational chart of all anticipated project participants, their countries of citizenship and their roles in the project. Accompanying this chart, offerors will provide brief biographical sketches of key personnel and significant contributors and a detailed description of the roles that contributors (including Principal Investigator(s)) will play based on their qualifications and on their level of effort in each year of the Program. Discussion of the teaming strategy among team members shall be included. If the team intends to use consultants, they must be included in the organizational chart as well. Indicate if the person will be an “individual” or “organizational” consultant (that is, will the consultant represent himself/herself or his/her organization). In both cases, the organizational affiliation should be identified. The consultant should make a written commitment to be available to the team; the commitment should be attached to the Cost Volume. (Interested parties are encouraged to leverage personnel that are dedicated to BAA requirements no less than 20% of their time. If any participant is scheduled for less than 20% of his/her time, the proposer will provide a clear and compelling justification as to how benefit can be gained from that person’s participation at the specified level of effort.)

A chart, such as the following, is suggested.

| Participants | Citizenship | Org | Role | Unique, Relevant Capabilities | Specific Task(s) / Contributions | Time Commitment |
|---------------|-------------|----------------|-------------------------|-------------------------------|----------------------------------|-----------------|
| John Doe | USA | ABC University | PI/Key Personnel | Astrophysicist | Orbit characteristics | 25% |
| John Doe, Jr. | PRC | ABC University | Key Personnel | Computer Programmer | Automated guidance programming | 25% |
| Jane Doe | USA | ABC University | Significant Contributor | And so forth... | And so forth... | 50% |
| Jane Roe | Uzbekistan | ABC University | Contributor | | | 25% |
| John Doe, III | ROK | XYZ Co. | Co-PI/Key Personnel | | | 25% |
| Wayne Roe | USA | XYZ Co. | Significant Contributor | | | 40% |
| John Doe, IV | USA | XYZ University | Consultant (Individual) | | | 200 hours |

Section 3: Detailed Proposal Information

This section of the proposal shall provide the detailed, in-depth discussion of the proposed research. Specific attention must be given to addressing both the risks and payoffs of the proposed research and why it is desirable for IARPA to pursue. This part shall provide:

Statement of Work (SOW) - In plain English, 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, sub-contractor, team member, etc.) by name;
- The exit criteria for each task/activity, i.e., a product, event or milestone that defines its completion;
- Definition of all deliverables (e.g., data, reports, software, etc.) to be provided to the Government in support of the proposed research tasks/activities.

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

At the end of this section, provide a Gantt chart, showing all the tasks and sub-tasks on the left with the performance period (in years/quarters) on the right. All milestones should be clearly labeled on the chart.

A detailed description of the objectives, scientific relevance, technical approach and expected significance of the work. The key elements of the proposed work should be clearly identified and related to each other. Proposals should clearly detail the technical method(s) and/or approach(es) that will be used to meet or exceed each Program milestone and should provide ample justification as to why the proposed method(s)/approach(es) is/are feasible. Any anticipated risks should be described and possible mitigations proposed. General discussion of the problem without specific detail about the technical implementation will result in an unacceptable rating.

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

Data sources: Selected data sets will be provided as Government Furnished Information as described in Section 1.B.3 (Data Resources) above. Any additional datasets proposed by the offeror must comply with the requirements in Section 1.B.3 (Data Resources). The Government reserves the right to reject a proposal if it does not appropriately identify and address data issues as specified in Section 1.B.3 (Data Resources).

Description of the deliverables associated with the proposed research results, enhancing that of Volume 1, Section 2: Summary of Proposal.

Deliverables should be defined that show progress toward achieving the stated Program milestones and accuracy and speed goals. Deliverables must be specified for months 6 and 11 of the Base Period and for months 6 and 11 for each of the Option Years. Year-end deliverables are to include all data (CDR definitions and versions), tools (CDR task tools, event agent generator, event agents, and prototypes), evaluation analyses and documents (software documentation, methodology documentation, research reports, and publications). Mid-year deliverables are to include research status reports including waypoint results, and significant completed tools, publications, and data. For all

deliverables describe the proposed approach to intellectual property rights, together with supporting rationale of why this approach offers the best value to the Government.

This section should include a list of technical data, computer software or computer software documentation associated with this research effort in which the Government will acquire less than unlimited rights. For all software deliverables, the offeror shall include all as delivered version source code produced in the course of software development. These deliverables must include source code and the appropriate scripting, subordinate libraries, release notes, and other necessary components, data, and documentation. These and all other deliverables developed as part of the IARPA ALADDIN Program shall be delivered prior to the end of the contract Period of Performance. The Government desires Government Purpose Rights for all deliverables, anything less will be considered a significant weakness in the proposal. (See also Section 6.B.3 (Intellectual Property)."

Cost, schedule, milestones. Cost, schedule, and milestones for the proposed research, including estimates of cost for each deliverable delineated by the primes and major sub-contractors, total cost, and company cost share, if any. Where the effort consists of multiple portions that could reasonably be partitioned for purposes of funding, these should be identified as options with separate cost estimates for each. The milestones must not include proprietary information.

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.

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

Detailed Management Plan. The Management Plan should identify both the organizations and the individuals within those 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. Expected levels of effort (percentage time or fraction of an FTE) for all key personnel and significant contributors should be clearly noted. A description of the technical, administrative and business structure of the team and the internal communications plan should be included. Project/function/sub-contractor relationships (including formal teaming agreements), Government research interfaces, and planning, scheduling, and control practices should be described. The team leadership structure should be clearly defined. Provide a brief biography of the key personnel (including alternates, if desired) who will be involved in the research along with the amount of effort to be expended by each person during the year. Participation by key personnel and significant contributors is expected to exceed 30% of their time. A compelling explanation of any variation from this figure is required.

Resource Share. Include the type of support, if any, the offeror might request from the Government, such as facilities, equipment or 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.

The names of other federal, state or local agencies or other parties receiving the proposal and/or funding the proposed effort. If none, so state.

Section 4: Additional Information

A brief bibliography of relevant technical papers and research notes (published and unpublished) which document the technical ideas on which the proposal is based. Copies of not more than three (3) relevant papers may be included in the submission. This information does not contribute to the page count of Volume 1.

4. B.2. Volume 2: Cost Proposal {No Page Limit}

Section 1: Cover Sheet

- (1) BAA number;
- (2) Lead organization submitting proposal
- (3) Type of business, selected among the following categories: "LARGE BUSINESS", "SMALL DISADVANTAGED BUSINESS", "OTHER SMALL BUSINESS", "HBCU", "MI", "OTHER EDUCATIONAL", OR "OTHER NONPROFIT"
- (4) Contractor's reference number (if any)
- (5) Other team members (if applicable) and type of business for each
- (6) Proposal title
- (7) 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)
- (8) Administrative point of contact to include: title, first name, last name, street address, city, state, zip code, telephone, fax (if available), and electronic mail (if available)
- (9) Award instrument requested: cost-plus-fixed-fee (CPFF), cost-contract—no fee, cost sharing contract – no fee, other transaction or other type of procurement contract (specify)
- (10) Place(s) and period(s) of performance
- (11) Total proposed cost separated by basic award and option(s) (if any)
- (12) Name, address, telephone number of the offeror's Defense Contract Management Agency (DCMA) administration office or equivalent cognizant contract administration entity, if known
- (13) Name, address, telephone number of the offeror's Defense Contract Audit Agency (DCAA) audit office or equivalent cognizant contract audit entity, if known
- (14) Date proposal was prepared
- (15) DUNS number
- (16) TIN number
- (17) Cage Code
- (18) Proposal validity period [minimum of 90 days]

[NOTE: See Appendix B for Cover Sheet Template]

Section 2: Detailed Estimated Cost Breakdown

- (1) Total cost broken down by major cost items (direct labor, including labor categories; sub-contracts; materials; other direct costs, overhead charges, etc.) and further broken down by major task and phase
- (2) Major Program tasks by fiscal year

- (3) An itemization of major subcontracts and equipment purchases
- (4) An itemization of any information technology (IT¹²) purchase
- (5) A summary of projected funding requirements by month
- (6) The source, nature and amount of any industry cost-sharing
- (7) Identification of pricing assumptions of which may require incorporation into the resulting award instrument (e.g., use of Government Furnished Property/Facilities/Information, access to Government Subject Matter Expert/s, etc.).

The prime contractor is responsible for compiling and providing all subcontractor proposals for the Procuring Contracting Officer (PCO). All subcontractor proposals shall also include the above listed cost breakdown. If any subcontractor does not wish to provide their direct and/or indirect rates to the prime contractor, their proposal may contain burdened rates; however, a copy of the proposal showing their unburdened rates shall be contained in the offeror's proposal as a sealed package to the Government or submitted separately/directly to the Government under separate cover. Subcontractor proposals should include Interdivisional Work Transfer Agreements (ITWA) or similar arrangements. Where the effort consists of multiple portions which could reasonably be partitioned for purposes of funding, these should be identified as options with separate cost estimates for each. NOTE: For IT and equipment purchases, include a letter stating why the offeror cannot provide the requested resources from its own funding.

Supporting cost and pricing information must be provided in sufficient detail to substantiate the summary cost estimates in Volume 1 above. Include a description of the method used to estimate costs and supporting documentation. All proprietary subcontractor proposal documentation, prepared at the same level of detail as that required of the prime, shall be made immediately available to the Government, upon request, under separate cover (i.e., mail, electronic/email, etc.), either by the offeror or by the subcontractor organization.

Consultant letter(s) of commitment should be attached to the Cost Volume and estimated costs should be included in the cost estimates.

¹² IT is defined as “any equipment, or interconnected system(s) or subsystem(s) of equipment that is used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information by the agency. (a) For purposes of this definition, equipment is used by an agency if the equipment is used by the agency directly or is used by a contractor under a contract with the agency which – (1) Requires the use of such equipment; or (2) Requires the use, to a significant extent, or such equipment in the performance of a service or the furnishing of a product. (b) The term “information technology” includes computers, ancillary, software, firmware and similar procedures, services (including support services), and related resources. (c) The term “information technology” does not include – (1) Any equipment that is acquired by a contractor incidental to a contract; or (2) Any equipment that contains imbedded information technology that is used as an integral part of the product, but the principal function of which is not the acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception of data or information. For example, HVAC (heating, ventilation, and air conditioning) equipment, such as thermostats or temperature control devices, and medical equipment where information technology is integral to its operation, is not information technology.”

4. C. Submission Details

4. C.1. Due Dates

Proposals must be received by or before 5:00 p.m. local time on July 28, 2010 in order to be considered during the initial round of selections.

4. C.2. Proposal Delivery

The full proposal (one original hard copy with original signatures; one hard copy with original or copied signatures; and 1 electronic copy with Volume 1, Volume 2 and any permitted, additional information (.pdf format preferred) on a CD-ROM) must be delivered to:

ODNI/IARPA

Attention: ALADDIN Program - John Garofolo (IARPA-BAA-10-01)

Gate 5

1000 Colonial Farm Road

McLean, VA 22101

IMPORTANT: Deliveries must be made using one of the following commercial delivery services: UPS, FedEx or DHL; NOT United States Postal Service (USPS). Failure to use one of these methods **may** jeopardize or delay delivery of proposals. Note that under certain "same day delivery" options, UPS, FedEx and DHL **may** subcontract out their services to local delivery companies. These smaller local delivery companies will not be allowed access to this address to make deliveries. Offerors are cautioned that they assume the risk of untimely delivery of their proposal if they use one of these "same day delivery" options. Deliveries by hand, e-mail, or fax will not be accepted.

Offerors must ensure the timely delivery of their proposals. The mail facility closes at 5 p.m. local time; delivery cannot take place after this time until the following day. IARPA will generally acknowledge receipt of complete submissions via e-mail within 24-48 hours and assign control numbers that should be used in all further correspondence regarding proposals. To be certain of delivery, however, it is suggested that a tracking number be obtained from the carrier.

Proposals must be received by the time and date specified in the BAA in order to be considered during the initial round of selections. IARPA may evaluate proposals received after this date for a period up to one year from the date of initial posting on FedBizOpps. Selection remains contingent on availability of funds.

Failure to comply with the submission procedures may result in the submission not being evaluated.

SECTION 5: APPLICATION REVIEW INFORMATION

5. A. Evaluation Criteria

The criteria to be used to evaluate and select proposals for this Program BAA are described in the following paragraphs. Because there is no common statement of work, each proposal will be evaluated on its own merits and its relevance to the Program goals

rather than against other proposals responding to this BAA. Specifics about the evaluation criteria are provided below, in descending order of importance.

5. A.1. 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 offeror can expect the selection process to include an assessment of the proposal against the state-of-the-art.

5. A.2. Effectiveness of Proposed Work Plan

The feasibility and likelihood that the proposed approach for satisfying 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. The offeror must also propose waypoints as outlined in Section 1.C. All waypoints, 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 waypoints and milestones is realistic and reasonable.

The role and relationships of prime and sub-contractors is clearly delineated with all participants fully documented. Work plans 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 must also demonstrate that key personnel have sufficient time committed to the Program to accomplish their described Program roles.

The requirement for and the anticipated use or integration of Government Furnished Property (GFP) including all equipment, facilities, information, etc., is fully described including dates when such GFP, GFE (Government Furnished Equipment), GFI (Government Furnished Information) or other similar Government-provided resources will be required.

The offeror's proposed intellectual property and data rights are consistent with the Government's need to be able to communicate Program information across Government organizations and to support transition of the Program results to Intelligence Community users at a reasonable cost.

5. A.3. Contribution and Relevance to the IARPA Mission and Program Goals

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 will meet and progressively demonstrate ALADDIN 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 over its future adversaries. The proposed approach to intellectual property rights is consistent with the Government's stated goals and offers the best value to the Government.

5. A.4. 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 will be evaluated, as well as qualifications, capabilities, and experience of the proposed principal investigator, team leader, and key personnel critical in achieving the proposal objectives. Time commitments of key personnel must be sufficient for their proposed responsibilities in the effort. The extent to which key technical personnel from offerors, subcontractors and partnerships represent state-of-the-art, renowned expertise and experience in the technical research areas proposed will be evaluated.

5. A.5. Cost Realism

The proposed costs are reasonable and realistic for the work proposed. Estimates are "realistic" when they are neither excessive nor insufficient for the effort to be accomplished. The proposal documents all anticipated costs including those of associate, participating organizations. The proposal demonstrates that the respondent has fully analyzed budget requirements and addressed resulting cost risks. Other sponsors who have funded or are funding this offeror for the same or similar efforts are identified. The Government shall evaluate how well all cost data are traceable and reconcilable.

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 will be received favorably include innovative management concepts that maximize direct funding for technology and limit diversion of funds into overhead.

After selection and before award, the Contracting Officer will negotiate cost/price reasonableness.

5. B. Review and Selection Process

It is the policy of IARPA to ensure impartial, equitable, comprehensive proposal evaluations and to select the source (or sources) whose offer meets the Government's technical, policy and programmatic goals. In order to provide the desired evaluation, qualified Government personnel will conduct reviews and (if necessary) convene panels of experts in the appropriate areas.

Proposals will only be evaluated against the criteria described under Section 5.A above, and will not be evaluated against other proposals since they are not submitted in accordance with a common work statement. For evaluation purposes, a proposal is the document described in Section 4. Other supporting or background materials submitted with the proposal will be considered for the reviewer's convenience only and not considered as part of the proposal.

As noted above, the Government intends to use employees of Booz Allen Hamilton to assist in administering the evaluation of the proposals as well as to provide expert advice regarding portions of the proposals submitted to the Government. They will provide logistical support in carrying out the evaluation process. These personnel will 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 purpose stated above. If

you do not send notice of objection to this arrangement, the Government will assume your consent to the use of contractor support personnel in assisting the review of your submittal(s) under this BAA. Only Government personnel will make evaluations and award determinations under this BAA.

5. C. Proposal Retention

It is the policy of IARPA to treat all proposals as competitive information and to disclose their contents only for the purpose of evaluation. Proposals will not be returned. Upon completion of the source selection process, the original of each proposal received will be retained at IARPA and all other non-required copies will be destroyed. A certification of destruction may be requested, provided that the formal request is sent to IARPA via e-mail within 5 days after notification of proposal results.

SECTION 6: AWARD ADMINISTRATION INFORMATION

6. A. Award Notices

As soon as the evaluation of a proposal is complete, the offeror will be notified that: 1) the proposal has been selected for funding pending contract negotiations, or, 2) the proposal has not been selected.

The ALADDIN Program has engaged the Department of the Interior / National Business Center as the Contracting Agent for the ALADDIN Program.

6. B. Administrative and National Policy Requirements

6. B.1. Security

The Government anticipates that proposals submitted under this BAA will be unclassified. Offerors choosing to submit a classified proposal must first receive permission from the Original Classification Authority to use their information in replying to this BAA. Applicable classification guide(s) should be submitted to ensure that the proposal is protected appropriately.

Offerors choosing to submit a classified proposal are reminded that the proposal deadline remains the same regardless of whether the offeror's proposal, in whole or in part, is classified. Additional processing time may be required if all or part of a submission is classified. In the event that an offeror chooses to submit a classified proposal or submit any documentation that may be classified, the following information is applicable.

Collateral Classified Information: Use classification and marking guidance provided by previously issued security classification guides and the National Industrial Security Program Operating Manual (DoD 5220.22-M) when marking and transmitting information previously classified by another original classification authority. Classified information at the Confidential and Secret level may only be mailed via U.S. Postal Service (USPS) First Class Registered Mail or U.S. Postal Service Express Mail. All classified information will be enclosed in opaque inner and outer covers and double wrapped. The inner envelope shall be sealed and plainly marked with the assigned classification and addresses of both sender and addressee. The inner envelope shall be addressed to:

TO BE OPENED BY
IARPA Security Office
ATTN: IARPA-BAA-10-01

The outer envelope shall be sealed with no identification as to the classification of its contents and addressed to:

IARPA/MS2 Building
Office of the Director of National Intelligence (ODNI)
Washington, DC 20511

Information Above Collateral SECRET Level: For submissions above the Collateral SECRET level, contact the IARPA Security Office at 301-851-7580 for further guidance and instructions prior to transmitting information to IARPA.

Offerors must have existing and in-place prior to execution of an award, approved capabilities (personnel and facilities) to perform research and development at the classification level they propose.

Security classification guidance will not be provided at this time since IARPA is soliciting ideas only. After reviewing the incoming proposals, if a determination is made that the award instrument may result in access to classified information, a security classification guide will be issued and attached as part of the award.

6. B.2 Proprietary Data

It is the policy of IARPA to treat all proposals as competitive information, and to disclose their contents only for the purpose of evaluation.

All proposals containing proprietary data should 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 is considered proprietary data.

All data gathered by performers and researchers must 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 performer must provide proof that the data was acquired in accordance with U.S. laws and regulations. Performers can use their own data for development purposes as long as it follows these guidelines.

6. B.3. Intellectual Property

6. B.3.a. Procurement Contract Offerors

6. B.3.a.1. Noncommercial Items (Technical Data and Computer Software)

Offerors responding to this BAA requesting a procurement contract to be issued under the FAR shall identify all noncommercial technical data and noncommercial computer software that it plans to generate, develop and/or deliver under any proposed award

instrument in which the Government will acquire less than unlimited rights and to assert specific restrictions on those deliverables. In the event that offerors do not submit such information, the Government will assume that it automatically has “unlimited rights” to all noncommercial technical data and noncommercial computer software generated, developed, and/or delivered under any award instrument, unless it is substantiated that development of the noncommercial technical data and noncommercial computer software occurred with mixed funding. If mixed funding is anticipated in the development of noncommercial technical data and noncommercial computer software generated, developed and/or delivered under any award instrument, then offerors should identify the data and software in question as subject to Government Purpose Rights (GPR).¹³ The Government will automatically assume that any such GPR restriction is limited to a period of five (5) years, at which time the Government will acquire “unlimited rights” unless the parties agree otherwise. Offerors are advised that the Government will use this information during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the offeror, as may be necessary, to evaluate the offeror’s assertions. If no restrictions are intended, then the offeror should state “NONE.”

A sample list for complying with this request is as follows:

| NONCOMMERCIAL ITEMS | | | |
|---|---------------------|--------------------------|---------------------------------------|
| Technical Data, Computer Software To be Furnished With Restrictions | Basis for Assertion | Asserted Rights Category | Name of Person Asserting Restrictions |
| (LIST) | (LIST) | (LIST) | (LIST) |

6. B.3.a.2. Commercial Items (Technical Data and Computer Software)

Offerors responding to this BAA requesting a procurement contract to be issued under the FAR shall identify all commercial technical data and commercial computer software that may be embedded in any noncommercial deliverables contemplated under the research effort, along with any applicable restrictions on the Government’s use of such commercial technical data and/or commercial computer software. In the event that offerors do not submit the list, the Government will assume that there are no restrictions on the Government’s use of such commercial items. The Government may use the list during the source selection evaluation process to evaluate the impact of any identified restrictions and may request additional information from the offeror, as may be necessary, to evaluate the offeror’s assertions. If no restrictions are intended, then the offeror should state “NONE.”

¹³ “Government purpose rights” means the rights to use, modify, reproduce, release, perform, display, or disclose technical data and computer software within the Government without restriction; and to release or disclose technical data and computer software outside the Government and authorize persons to whom release or disclosure has been made to use, modify, reproduce, release, perform, display, or disclose that data or software for any United States Government purpose. United States Government purposes include any activity in which the United States Government is a party, including cooperative agreements with international or multi-national 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.

A sample list for complying with this request is as follows:

| COMMERCIAL ITEMS | | | |
|---|---------------------|--------------------------|---------------------------------------|
| Technical Data, Computer Software To be Furnished With Restrictions | Basis for Assertion | Asserted Rights Category | Name of Person Asserting Restrictions |
| (LIST) | (LIST) | (LIST) | (LIST) |

6. B.3.b. All Offerors – Patents

Include documentation proving ownership of or possession of appropriate licensing rights to all patented 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 utilizes, but the application has not yet been made publicly available and contains proprietary information, the offeror may provide only the patent 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 possession of appropriate licensing rights in the invention.

6. B.3.c. All Offerors – Intellectual Property Representations

All offerors shall provide a good faith representation that you either own or possess appropriate licensing rights to all other intellectual property that will be utilized under your proposal for the IARPA program. Additionally, offerors shall provide a short summary for each item asserted with less than unlimited rights that describes the nature of the restriction and the intended use of the intellectual property in the conduct of the proposed research.

6. B.4. Meeting and Travel Requirements

Performers 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.

6. B.4.a. Meetings

The ALADDIN Program intends to hold a Program-level Kick-Off meeting during the first month of the Program and then hold Program-level meetings every six months. These two-day meetings 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 as well as to demonstrate their technical capabilities to other participants and invited guests at these events. Program participants will also be expected to participate in the annual Fall NIST TRECVID Workshop. For costing purposes, the offeror should expect two meetings in the Washington, D.C., area and the other outside the Washington, D.C., area for each year of the contract.

6. B.4.b. Site Visits

Site visits by the Contracting Officer Representative (COR) and the ALADDIN Program Management staff will take place periodically throughout 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 visits.

6. B.5. 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* (<http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.htm>).

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 sub-contractors, must also have a valid Assurance.

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) on final proposal submission to IARPA. The IRB conducting the review must be the IRB identified on the institution's Assurance. The protocol, separate from the proposal, must include a detailed description of the research plan, study population, risks and benefits of study participation, recruitment and consent process, data collection, and data analysis. Consult the designated IRB for guidance on writing the protocol. 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. The IRB approval process can last between one to three months. 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.6. Publication Approval

It is anticipated that research funded under this Program will be unclassified contracted fundamental research that will not require a pre-publication review. However, performers 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 should be provided to the IARPA Program Manager and the Contracting Officer Representative.

6. B.7. 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 CFR Parts 120 through 130, and the Export Administration Regulations (EAR), 15 CFR Parts 730 through 799, 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 foreign persons 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 will 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 be responsible for ensuring that the provisions of this clause apply to its sub-contractors.

(5) The offeror will certify knowledge of and intended adherence to these requirements in the representations and certifications of the contract.

6. B.8. 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 sub-contractors carry out this policy. Each offeror that submits a proposal that includes sub-contractors; is selected for funding (pending negotiations); and has proposed a funding level above the maximum cited in the FAR, may be asked to submit a sub-contracting plan before award, in accordance with FAR 19.702(a) (1) and (2). The plan format is outlined in FAR 19.704. Offerors must declare teaming relationships in their proposals and must 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 must take care not to over-commit those resources being applied.

6. B.9. Reporting

Fiscal and management responsibility are important to the ALADDIN Program. Although the number and types of reports will be specified in the award document, all performers will, at a minimum, provide the Contracting Office, Contracting Officer Representative and the ALADDIN Program Manager 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 will describe technical highlights and accomplishments, priorities and plans, issues and concerns; will provide evaluation results; and will detail future plans. Financial reports will 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.

Performers will prepare a final report of their work at the conclusion of the performance period of the award (even if the research may continue under a follow-on vehicle). The final report will be delivered to the Contracting Agent, Contracting Officer Representative and the ALADDIN Program Manager. The report will include:

- Problem definition
- Findings and approach
- System design and solution
- Possible generalization(s)
- Anticipated path ahead

6. B.10. Central Contractor Registration (CCR)

Selected offerors not already registered in the Central Contractor Registry (CCR) may be required to register in CCR prior to any award under this BAA. Information on CCR registration is available at <http://www.ccr.gov>.

6. B.11. Representations and Certifications

Prospective offerors may be required to complete electronic representations and certifications at <http://orca.bpn.gov>. Successful offerors will be required to complete additional representations and certifications prior to award.

6. B.11.1. Certification for Grant Awards

Grant awards will not be considered.

6. B.11.2. Certification for Contract Awards

Certifications and representations shall be completed by successful offerors prior to award. Federal Acquisition Regulation (FAR) Online Representations and Certifications Application (ORCA) is at website <http://orca.bpn.gov>. Defense FAR Supplement and contract specific certification packages will be provided to the contractor for completion prior to award.

6. B.12. Wide Area Work Flow (WAWF)

Unless using another approved electronic invoicing system, performers will be required to submit invoices for payment directly via the Internet/WAWF at <http://wawf.eb.mil>. Registration to WAWF will be required prior to any award under this BAA.

6. B.13. Lawful Use and Privacy Protection Measures

All data gathered by researchers must 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 performer must provide proof that the data was acquired in accordance with U.S. laws and regulations.

SECTION 7: AGENCY CONTACTS

Administrative, technical or contractual questions concerning this BAA should be sent via e-mail to dni-iarpa-baa-10-01@ugov.gov. If e-mail is not available, fax questions to 301-851-7622, Attention: IARPA-BAA-10-01. All requests must include the name, email address (if available), and phone number of a point of contact for the requested information. Do not send questions with proprietary content. IARPA will accept questions about the BAA until its closing. A consolidated Question and Answer response will be periodically posted on the IARPA website (www.IARPA.gov); no answers will go directly to the submitter.

Points of Contact:

The technical POC for this effort is:

John Garofolo, IARPA, Office of Incisive Analysis

Mailing address:

Intelligence Advanced Research Projects Activity (IARPA)

ATTN: IARPA-BAA-10-01

Office of the Director of National Intelligence

Washington, DC 20511

Fax: (301) 851-7672

E-mail: dni-iarpa-baa-10-01@ugov.gov

All emails must have the BAA number (IARPA-BAA-10-01) in the Subject Line.

APPENDIX A

Academic Institution Acknowledgement Letter Template

IARPA Broad Agency Announcement

IARPA-BAA-10-01

-- Please Place on Official Letterhead --

<insert date>

To: Mr. Thomas Kelso
Chief Acquisition Officer
ODNI/IARPA
Office of the Director of National Intelligence
Washington, D.C. 20511

Subject: Academic Institution Acknowledgement 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 <insert solicitation #> and is hereby approved by the undersigned official, serving as the president, vice-president, chancellor, vice-chancellor, or provost of the institution.

<Name>
<Position>

Date

Copy Furnished:
Mr. John Turnicky
Chief, ODNI Contracts
Office of the Director of National Intelligence
Washington, DC 20511

APPENDIX B

SAMPLE COVER SHEET

for

VOLUME 1: Technical/Management Details

BROAD AGENCY ANNOUNCEMENT (BAA)

ALADDIN Program

IARPA-BAA-10-01

| | |
|--|--------|
| (1) BAA Number | |
| (2) Lead Organization Submitting Proposal | |
| (3) Type of Business, Selected Among the Following Categories: "Large Business", "Small Disadvantaged Business", "Other Small Business", "HBCU", "MI", "Other Educational", or "Other Nonprofit" | |
| (4) Contractor's Reference Number (if any) | |
| (5) Other Team Members (if applicable) and Type of Business for Each | |
| (6) Proposal Title | |
| (7) 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) | |
| (8) 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) | |
| (9) OCI Waiver or Waiver Request [see Section 3.A.1] Included? | Yes/No |
| (9a) If No, is written certification included? | Yes/No |
| (10) Are one or more U.S. Academic Organizations part of your team? | Yes/No |
| (10a) If Yes, are you including an Academic Institution Acknowledgement Statement with your proposal for each Academic Organization that is part of your team? | Yes/No |
| (11) Total Funds Requested from IARPA and the Amount of Cost Share (if any) | \$ |

| | |
|----------------------------------|--|
| (12) Date Proposal as Submitted. | |
|----------------------------------|--|

APPENDIX C

SAMPLE COVER SHEET

for

VOLUME 2: Cost Proposal

BROAD AGENCY ANNOUNCEMENT (BAA)

ALADDIN Program

IARPA-BAA-10-01

| | |
|--|--|
| (1) BAA Number | |
| (2) Lead organization submitting proposal | |
| (3) Type of Business, Selected Among the Following Categories: "Large Business", "Small Disadvantaged Business", "Other Small Business", "HBCU", "MI", "Other Educational", or "Other Nonprofit" | |
| (4) Contractor's Reference Number (if any) | |
| (5) Other Team Members (if applicable) and Type of Business for Each | |
| (6) Proposal Title | |
| (7) 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) | |
| (8) 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) | |
| (9) Award Instrument Requested: Cost-Plus-Fixed-Fee (CPFF), Cost-Contract—No Fee, Cost Sharing Contract – No Fee, Grant, Cooperative Agreement or Other Type of Procurement Contract (specify) | |
| (10) Place(s) and Period(s) of Performance | |
| (11) Total Proposed Cost Separated by Basic Award and Option(s) (if any) | |
| (12) Name, Address, Telephone Number of the Offeror's Defense Contract Management Agency (DCMA) Administration Office or Equivalent Cognizant Contract Administration Entity, if Known | |
| (13) Name, Address, Telephone Number of the Offeror's Defense Contract Audit Agency (DCAA) Audit Office or Equivalent Cognizant Contract Audit Entity, if Known | |
| (14) Date Proposal was Prepared | |
| (15) DUNS Number | |

| | |
|--|--|
| (16) TIN Number | |
| (17) Cage Code | |
| (18) Proposal Validity Period [minimum of 90 days] | |

APPENDIX D

Letter Template

For

Organizational Conflicts of Interest Certification

IARPA Broad Agency Announcement (BAA)

ALADDIN Program

IARPA-BAA-10-01

(Month DD, YYYY)

Office of the Director of National Intelligence
Intelligence Advanced Research Projects Activity (IARPA)
Incisive Analysis Office
ATTN: John Garofolo
Washington, DC 20511

Subject: OCI Certification

Reference: Automated Low-level Analysis and Description of Diverse INtelligence Video (ALADDIN), IARPA-BAA-10-01, (Insert assigned proposal ID#, if received)

Dear Mr. Garofolo,

In accordance with IARPA Broad Area Announcement IARPA-BAA-10-01, Section 3.A.1, *Procurement Integrity, Standards of Conduct, Ethical Considerations, and 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 ALADDIN Program.

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) (Must be signed by an official that has the authority to bind the organization)

(Insert signature)

(Insert name of signatory)
(Insert title of signatory)