INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and the Department of Defense Grants and Agreements (DoDGARS) Subpart 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued. Neither the Naval Postgraduate School (NPS) nor the Contracting Office/Grants Office of NAVSUP Fleet Logistics Center San Diego (NAVSUP FLC San Diego) will issue paper copies of this announcement. Interested parties are responsible for checking www.grants.gov or http://www.nps.edu/Research/WorkingWithNPS.html for possible amendments to this BAA.

The Naval Postgraduate School (NPS) reserves the right to select and fund for award all, some, or none of the proposals in response to this announcement. No funding shall be provided for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of NPS and NAVSUP FLC San Diego to treat all proposals as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

I. GENERAL INFORMATION

1. **Requiring Agency:** Naval Postgraduate School

2. **Research Opportunity Title:** Multi-INT Research Initiatives at the Naval Postgraduate School

3. **Program Name:** Not Applicable (N/A)

4. **Research Opportunity Number:** NPS-BAA-13-005

5. **Response Date:** This announcement will remain open until 5:00 p.m. (PDT) 15 September 2014, or until replaced by a successor BAA. **However, in order to be considered for an FY14 award, full proposals should be submitted no later than 5:00 p.m. (PDT) 18 October 2013.**
6. Research Opportunity Description:

The Naval Postgraduate School (NPS) is interested in receiving proposals for research initiatives that offer potential for advancement and improvement in the following multi-intelligence (Multi-INT) research topic areas:

- Inferencing and Reasoning
- Orchestrated Resource Management
- Visualization

A detailed description of each area, along with submittal instructions, is contained herein.

The Center for Multi-INT Studies (CMIS) supports research that develops theoretical foundations, models, and algorithms to enable timely, robust, and optimal sense making, situation awareness and decision making. Researchers must consider incomplete information in highly complex and dynamic intelligence, surveillance and reconnaissance (ISR) systems. These ISR systems are often comprised of centralized and distributed sensors, human observers, database management systems, and associated databases. Such systems operate in uncertain, resource-constrained environments against problems of significant complexity and urgency.

Approaches developed are expected to include multi-disciplinary methodologies.

This effort is being conducted under Goal 2 of the CMIS multi-year Research Program Plan covering the period FY14-FY18. CMIS' strategic research goals are to:

- Goal 1: Provide national Multi-INT research leadership
- Goal 2: Expand the number, breadth, and depth of researchers conducting high-value Multi-INT research
- Goal 3: Deliver high-value research outcomes

Investigators will have an opportunity to share their results with a community of academic, government, and industry stakeholders at the 2014 Multi-INT Research Summit to be held in August 2014. Results will be published in the 2014 CMIS Annual Multi-INT Research Report, which will be released publicly in November 2014.

(1) This call is for full proposals only. White papers will not be considered.

(2) This call is leading to the award of grants only. Proposals leading to development of cooperative agreements or contracts will not be considered. Research grants must have the potential to provide a public benefit, one beyond potential benefit to the U.S. Government, and this anticipated public benefit must be described in all proposals.

(3) Travel costs for one (1) round trip for up to three (3) members of the research team to and from the Naval Postgraduate School in Monterey, California, for three (3) days (not including travel days) must be included in the cost proposal and include travel for the Principal Investigator. This travel is for the purposes of attending and presenting research findings at the CMIS Annual Research Summit to be held in August 2014 for
the purpose of expanding knowledge through discussion and distribution of research reports. Travel to this event for additional team members will be considered; however, a written justification for each must be included.

TOPIC AREAS

Inferencing and Reasoning

Inferencing and reasoning capabilities are those that abstract raw data collected from multiple data sources of varying types and transform it into information that increases sense making, situational awareness, and decision making. This call for proposals seeks submissions focusing on the following inferencing and reasoning areas to include but not limited to:

- Domain and Context Knowledge Representation
  - Development of capabilities that integrate knowledge objects that often exist in different representation modalities and formalisms in order to establish a comprehensive view of all knowledge pertaining to domain-specific problems.

- Data Analytics
  - Development of capabilities that transform and model data from multiple sources with the goal of highlighting useful information, suggesting conclusions, and supporting decision making.

- Discovery by Machine Learning
  - Development of capabilities that allow the discovery and identification of new patterns in data from multiple sources that provides knowledge about a previously unknown entity or relationship using machine learning approaches.

- Forecasting
  - Development of capabilities that allow the anticipation of events, intent, vulnerabilities, and consequences, with associated portrayal of uncertainties from multiple sources of data and varying data types.

There is significant and enduring scientific research value associated with improving inferencing and reasoning capabilities. It is expected this research will advance the state-of-the-art in automated discovery and adaptive reasoning in changing contexts, as well as context sensitive forecasting.

Orchestrated Resource Management

Orchestrated resource management capabilities are those that translate decision-maker information needs into coordinated tasking/actions of sensors, observers, and databases to produce the data necessary to satisfy stated needs. This call for proposals seeks submissions focusing on the following orchestrated resource management areas, including, but not limited to:

- Capabilities that transform information needs or requests from high-level objects into specific observables relevant to stated objectives considering options available across sensing phenomenology, associated signatures, timeliness, and quality measurements
under expected conditions. This includes:

- Translation of collection strategies into information needs
- Decomposition of linguistic problem statements into essential elements of information and associated indicators to augment information needs
- Ranking and validation of information needs based on user goals and priorities
- Consolidation of information need redundancies and overlaps
- Decomposition of information needs into observables with associated intelligence value
- Identification of multi-disciplinary approaches to information need satisfaction
- Global optimization of multiple optimization functions controlling sensor resources

- Development and synchronization of optimal collection strategies across sensors, observers, and database assets to satisfy intelligence knowledge gaps. This includes:
  - Development of overarching collection strategies based on required observables, intelligence values and asset capabilities/feasibilities
  - Automatic generation and maintenance of optimal collection plans in coordination with multiple intelligence assets
  - Dynamic replanning in response to changing situation and new information requirements while minimizing undesired plan perturbations
  - Capabilities to execute event-driven anticipatory collection strategies
  - Capabilities for collectors to automatically respond to tips and cues

There is significant and enduring scientific research value associated with improving orchestrated resource management capabilities. It is expected this research will advance the state-of-the-art in autonomy of information gathering systems that include control theory to accommodate discrete, asynchronous sensor windows, as well as robust planning and decision theory to provide robust scheduling in the presence of deep uncertainty. In particular, these advancements must account for near-term sensor schedule (next opportunity) as well as anticipation of long-term sensing.

Visualization

Visualization capabilities are those that maximize the human capacity to perceive, understand, and reason about complex and dynamic data and situations. This includes but is not limited to:

- Visualization, representations, and interaction techniques that:
  - Facilitate understanding of massive and continually growing collections of data of multiple types
  - Develop frameworks for analysis of spatial, temporal, and spectral data
  - Expand understanding of uncertain, incomplete, and misleading information
  - Enable multiple levels of data and information abstraction
  - Develop feature vector methods that can be used to automate information processing

- Data representations and transformations
Theory and practice for transforming data into new scalable representations that reliably and accurately represent the content of the underlying data.

Methods to synthesize information from different types and sources of data into a unified and cohesive representation that enables users to focus on the meaning of the data.

There is significant and enduring scientific research value associated with improving visualization capabilities. It is expected this research will advance the state-of-the-art in monitoring complex autonomous systems and consider methodologies for visualizing the changing state of complex situations under surveillance, as well as the complex control processes orchestrating data collection. Both processes are dynamic and complex, and the user must be presented with information to understand the sensitivity of the surveillance processes to a dynamic target system and provide the user with insight into the effectiveness of the Multi-INT orchestration process.

7. Point(s) of Contact:

Questions or assistance needed regarding Grants.gov registration process, system requirements or submittal process shall be directed to Grants.gov by phone at 1-800-518-4726 or e-mail to support@grants.gov.

Questions of a technical nature shall be submitted to:

Dr. Jim Scrofani
Director, CMIS and Associate Professor of Electrical and Computer Engineering
Naval Postgraduate School, National Capital Region
E-mail: jwscrofa@nps.edu

or

Dr. Dave Garren
Director of Research, CMIS and Associate Professor of Electrical and Computer Engineering
Naval Postgraduate School, National Capital Region
E-mail: dagarren@nps.edu

Questions of a general nature can be directed to research@nps.edu. Questions of a business nature shall be directed to:

Janet Norton
Contract and Grant Officer
NAVSUP Fleet Logistics Center San Diego
E-mail: janet.norton@navy.mil

or

Teri Jay
Grant Management Specialist
Research and Sponsored Programs Office
Office of the Dean of Research
NOTE: Questions regarding this announcement must be provided to the Points of Contact listed above. All questions shall be submitted in writing by electronic mail.

8. **Instrument Type:** Awards under this BAA will take the form of **Grants**.

   Offerors should familiarize themselves with regulations applicable to grant assistance awards before submitting a proposal.

   **Grant** – A legal instrument, consistent with 31 U.S.C. 6304, is used to enter into a relationship:

   (1) The principal purpose of which is to transfer a thing of value to the recipient to carry out a public purpose of support or stimulation authorized by a law of the United States, rather than to acquire property or services for the Department of Defense’s direct benefit or use.

   (2) In which substantial involvement is not expected between the Department of Defense and the recipient when carrying out the activity contemplated by the grant.

   (3) No fee or profit is allowed.

   **NOTE:** Grants are distinguished from contracts in that grants provide financial assistance to recipients to conduct fairly autonomous programs. With respect to grants, the recipients bear prime responsibility for the conduct of research, and exercise judgment and original thought toward attaining the scientific goals within broad parameters of the research areas proposed and the resources provided. Although the Department of Defense supported grants must generally be of interest to, and must in some way further, Department of Defense mission(s), they must only tangentially relate to those missions. For direct support or to meet Department of Defense goals, objectives, or to improve defense processes/procedures, contracts or other transactions would be the appropriate instruments.

   **NOTE:** Grants must be in compliance with OMB Circular A-110 relocated to 2 CFR 215.

9. **Catalog of Federal Domestic Assistance (CFDA) Numbers:** 12.300.

10. **Catalog of Federal Domestic Assistance (CFDA) Titles:** Department of Defense (DoD) Basic and Applied Scientific Research.

11. **Other Information:**

    *This program is targeted to U.S. universities, foreign universities, and U.S. research institutions and laboratories outside the U.S. Federal Government. Applications from foreign institutions are only accepted from accredited universities. For further information, please see III. Eligibility Information on Page 8.*

    **Fundamental Research** – Fundamental Research means basic and applied research in science and engineering, the results of which ordinarily are published and shared broadly
within the scientific community, as distinguished from proprietary research and from
industrial development, design, production, and product utilization, the results of which
ordinarily are restricted for proprietary or national security reasons.

Work funded under this BAA may include basic research, applied research and some
advanced research, if properly programmed and approved for grants. With regard to any
restrictions on the conduct or outcome of work funded under this BAA, NPS will follow the
guidance as provided in the Under Secretary of Defense (Acquisition, Technology and
Logistics) Memorandum of 24 May 2010 regarding fundamental research.

In conformance with the USD (AT&L) guidance and National Security Decision Direction 189,
NPS will place no restriction on the conduct or reporting of unclassified “fundamental
research,” except as otherwise required by statute, regulation, or Executive Order.

**Broad Agency Announcements (BAAs)** – FAR Part 35 restricts the use of BAAs, such as
this, to the acquisition of basic and applied research and that portion of advanced
technology development not related to the development of a specific system or hardware
procurement. Grants under BAAs are for scientific study and experimentation directed
toward advancing the state of the art and increasing knowledge or understanding and have
a public benefit.

**Organizational Conflict of Interest** – All prospective grantees for this BAA are on actual
notice that the Department of Defense and the Department of the Navy (collectively referred
to as “Grantor”) rely on third-party contractor support. Consultant contractor employees,
with appropriate non-disclosure agreements and organizational conflicts of interest clauses
in their respective contracts with the Grantor, may be reviewing grant proposals for
administrative purposes and may be involved in Grant administration for the life of any
awarded grant. If you have any questions or concerns, please contact the Business POC
identified in Section I (General Information), Item 7 before the closing date of the BAA.

**THIS ANNOUNCEMENT IS NOT FOR THE ACQUISITION OF TECHNICAL,
ENGINEERING, AND OTHER TYPES OF SUPPORT SERVICES.**

II. **AWARD INFORMATION:**

1. **Amount and Period of Performance –**

   Anticipated Number of Awards: The government anticipates making approximately
   5-10 grant awards that represent the best value to the Government in accordance with
   the Research Opportunity Description and evaluation criteria for this program.

   Anticipated Range of Individual Award Amounts: The estimated amount of funding is
   expected to be between $50,000 and $150,000

   Anticipated Period of Performance: The performance period of the grant award may be up
to 12 months.

   Award selection notification **must not** be regarded as an authorization to begin performance
   or commit/expend funds. The Government is not obligated to provide any funding until a
   Government Grant Officer from NAVSUP FLC San Diego signs the respective award
document. Costs incurred in advance of signed grants are solely the responsibility of the
prospective grantee. Government officials, acting in DoN or DoD’s best interest, may choose not to fund a grant proposal. The act of funding a grant award, or not funding a grant award, is solely within DoN or DoD Grant Officer discretion and is not subject to any disputes process or appeal process.

It should be emphasized that in an award, the awardee receiving the funds accepts total responsibility for maintaining adequate cost controls while executing the effective research methodology. Award funding is not to be considered a “Department of Navy” (DoN) or “Department of Defense” (DoD) endorsement, nor shall it imply any DoD/DoN co-sponsorship.

III. ELIGIBILITY INFORMATION:

All responsible sources from academia and industry may submit proposals under this BAA. Historically Black Colleges and Universities (HBCUs) and Minority Institutions (MIs) are encouraged to submit proposals and join others in submitting proposals. However, no portion of this BAA will be set aside for HBCU and MI participation.

U.S. Government schools of higher education, Navy laboratories and warfare centers as well as other Department of Defense and civilian agency laboratories are not eligible to receive awards under this BAA. Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, are likewise not eligible to receive awards under this BAA. These types of organizations should not directly submit full proposals in response to this BAA. If any such organization is interested in the program described herein, the organization should contact one of the Technical POCs to discuss its area of interest.

University Affiliated Research Centers (UARC) are eligible to submit proposals under this BAA unless precluded from doing so by their Department of Defense UARC contract.

Some topics cover export controlled technologies. Research in these areas is limited to “U.S. persons” as defined in the International Traffic in Arms Regulations (ITAR) 22 CFR § 120.1 et seq.

The Federal Funding Accountability and Transparency Act of 2006 (Public Law 109-282), as amended by Section 6202 of Public Law 110-252, requires that all agencies establish requirements for recipients reporting information on subawards and executive total compensation as codified in 2 CFR 33.110. Any company, non-profit agency, or university that applies for financial assistance as either a prime or sub-recipient under this BAA must provide information in its proposal that describes the necessary processes and systems in place to comply with the reporting requirements identified in 2 CFR 33.220.

An entity is exempt from this requirement UNLESS in the preceding fiscal year it received: a) 80 percent or more of its annual gross revenue in Federal contracts (and subcontracts), loans, grants (and subgrants), and cooperative agreements; b) $25 million or more in annual gross revenue from Federal contracts (and subcontracts), loans, grants (and subgrants), and cooperative agreements; and c) the public does not have access to information about the compensation of the senior executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 or section 6104 of the Internal Revenue Code of 1986.

APPLICATION AND SUBMISSION INFORMATION:
The research proposal shall follow the format described under the proposal preparation sections below: “Format and Content of Full Proposals,” and “Submission of Full Proposals.”

All proposals should describe how the research will advance knowledge in the field of study, enhance understanding, and have the potential to provide a direct benefit to the public. A grant can only be awarded if the principal purpose of the research effort is to support or stimulate a public purpose.

Proposal titles should be descriptive of the work they cover and not be merely a copy of the title of this solicitation.

Full proposals shall include a severable, self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions or other controlled unclassified information (CUI). Full proposals submitted, and the research supported, under this BAA are expected to be unclassified.

All Proposal submissions will be protected from unauthorized disclosure in accordance with FAR 15.207, applicable law, and DoD/DoN regulations. Support contractors may have access to technical submissions for validation and technical review only. DoD and DoN will ensure that any such support contractor will have adequate organizational conflict of interest clauses in their respective support contracts and will obtain copies of any relevant non-disclosure agreements by and between the contractor and its employees.

NOTE: Grants DO NOT include the delivery of software, prototypes, and hardware deliverables. These may be generated for the purposes of testing theory or methods, but the delivery is expected to be a final report of the research findings.

1. Format and Content of Full Proposals:

Full proposals shall be submitted electronically at http://www.grants.gov using the application template package associated with this BAA as delineated below.

A. Full Proposal Format – Technical and Cost Proposals

- Paper Size – 8.5 x 11 inch paper
- Margins – 1 inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages:
  - Technical proposal is limited to no more than 40 pages, including cover page, table of contents, executive summary, statement of work, biographical information, and indexes/foldouts/photographs/appendices.
  - Cost proposal is limited to no more than 10 pages, excluding supporting documentation attached separately as a PDF on the Grants.gov application website.
  - Biographical information for members of the research team is limited to three (3) pages per person. No other curricula vitae are allowed.
B. Full Proposal Content – Technical Proposal

• **Cover Page:** This should include the words “TECHNICAL PROPOSAL” and the following:
  
  • BAA number **NPS- BAA-13-005**
  • Descriptive title of the proposed research
  • Identity of prime Offeror institution and complete list of subcontractors or subgrantees, if applicable and known at time of application
  • Technical contact (name, title, address, phone/fax, electronic mail address)
  • Administrative/business contact (name, address, title, phone/fax, electronic mail address)
  • Duration of effort in the format: “# months from date of award.” The duration may be up to 12 months. Options will not be utilized.

• **Table of Contents:** An alphabetical/numerical listing of the sections within the proposal, including corresponding page numbers.

• **Executive Summary:** Concise abstract (approximately 200 words) of the proposed research effort, including the name of the Offeror, anticipated public benefit, objectives, assessed need, and anticipated impact and results. The Executive Summary must specifically describe how the principal purpose of the research effort supports or stimulates a public purpose.

  **NOTE:** A grant can only be awarded if the principal purpose is to support or stimulate a public purpose.

• **Statement of Work:** A stand-alone Statement of Work (SOW) repeating the title and Offeror information required on the cover sheet, and clearly detailing scope and objectives, background necessary to understand the problem, appropriate references cited to the scientific literature, assessed need and importance, and technical approach/methodology in sufficient detail to understand the nature of the proposed activities. Include a detailed listing of the technical tasks/subtasks.

  *For Basic Research, include a description of potential DoN /DoD relevance and contributions of the proposed effort to the NPS research mission.*

  *For Applied Research, include a description of the project objectives, the concept of operation for the new capabilities to be delivered, and the expected operational performance improvements.*

• **Public Purpose:** Include in your Statement of Work a concise statement of how the proposed research supports or stimulates a public purpose, rather than providing a deliverable to DoD/DoN. This statement is an important part of the evaluation/award process.

  It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, such proposals must include a severable, self-standing SOW without any proprietary or CUI restrictions, which can be attached to the
• **Project Schedule and Milestones:** A summary of the schedule of activities and milestones. Because date of award cannot be known at time of application, include length of time into the grant period of performance, such as “Month 1,” “First Quarter,” and “Month 8,” and so on.

• **Evidence of Progress:** A detailed description of the results and evidence of progress expected through the grant inclusive of the timeframe in which it will be delivered.

• **Management Approach:** A discussion of the overall approach to the management of this effort, including brief discussions of the total organization; use of personnel; project/function/subcontractor/subrecipient relationships; government research interfaces; and planning, scheduling and control practice. Identify which personnel and subcontractors/subrecipients (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/Hardware/Software/Information required, by version and/or configuration.

• **Offeror Qualifications:** A discussion of previous accomplishments and work by the Offeror institution in this or closely related areas.

• **Statement of Research Status:** Concise statement which 1) identifies whether the proposed work is a follow-on effort from a prior award, and if so, describes how the proposed work extends or enhances the prior effort; and 2) identifies whether applicants have received prior awards through the Naval Postgraduate School, and if so, gives the status of all deliverables for those awards.

• **Current and Pending Projects and Proposal Submissions:** Offerors are required to provide information on all current and pending support for ongoing projects and proposals, including subsequent funding in the case of continuing contracts, grants, and assistance agreements. Offerors shall provide the following information from related or complementary proposal submissions from whatever sources (e.g., NPS; Federal, State, local or foreign government agencies; public or private foundations; and industrial or other commercial organizations).

The information must be provided for all proposals already submitted or submitted concurrently to other possible sponsors, including NPS. Concurrent submission of a proposal to other organizations will not prejudice its review by NPS. For each, include the following:

1) Title of Proposal and Summary
2) Source and amount of funding (annual direct costs; provide contract and/or grant numbers for current contracts/grants)
3) Percentage effort devoted to each project
4) Identity of prime Offeror and complete list of subcontractors, if applicable
5) Technical contact (name, address, phone/fax, electronic mail address)
6) Administrative/business contact (name, address, phone/fax, electronic mail
address)

7) Period of performance (differentiate basic effort)

8) The proposed project and all other projects or activities requiring a portion of time of the Principal Investigator and other senior personnel must be included, even if they receive no salary support from the project(s)

9) The total award amount for the entire award period covered (including indirect costs) must be shown, as well as the number of person-months or labor hours per year to be devoted to the project, regardless of source of support

10) Statement of how the project(s) are related to the proposed effort with degree of overlap indicated.

C. Full Proposal Content – Cost Proposal

The cost proposal, which is a narrative explaining and justifying the budget figures in detail, must include all figures and calculations. These will be used to help determine cost allowability, allocability, and reasonableness. Justifications for costs must be explicitly stated.

NOTE: For the budget itself, the Offeror must use the Grants.gov budget forms from the application package template associated with this BAA on the Grants.gov website located at http://www.grants.gov/.

Assume that performance will start no earlier than three (3) months after the date the full proposal is submitted.

NOTE: Unless an authorized agent of the United States, i.e. a Grants Officer, awards a grant, monies expended and costs incurred are NOT reimbursable.

A separate Adobe PDF document, comprised of scanned budget-related documents, should be uploaded with the online application materials, providing appropriate verification and/or supporting documentation for each element of costs proposed.

The cost proposal should be included after the technical proposal as one document. These are to be uploaded to Grants.gov as one document.

Costs proposed must conform to the following principles and procedures, as applicable:

- Educational Institutions: OMB Circular A-21, relocated to 2 CFR 220
- Non-Profit Organizations: OMB Circular A-122, relocated to 2 CFR 230*

*For those Non-Profit Organizations specifically exempt from the provisions of OMB Circular A-122, FAR Part 31, and DFARS Part 231 shall apply.
The cost proposal must include the following for each applicable category:

- **Direct Labor:** Individual labor categories or persons, with associated labor hours and unburdened direct labor rates. Include any applicable escalation rates. Provide documentation verifying negotiated labor rates for each individual or labor category if supporting staff, such as research associates, has not yet been identified. In addition, describe how new staff will be recruited and selected. In the separate attachment of supporting documentation, provide current verification for all personnel involved in the research effort (e.g., pay scales of your institution, copy of payroll statement, or confirmation letter from your institution).

  Administrative and clerical labor – Salaries of administrative and clerical staff are normally indirect costs (and included in an indirect cost rate). Direct charging of these costs may be appropriate when a major project requires an extensive amount of administrative or clerical support significantly greater than normal and routine levels of support. Budgets proposing direct charging of administrative or clerical salaries must be supported with a budget justification, which adequately describes the major project and the administrative and/or clerical work to be performed.

  **NOTE:** Your budget should clearly describe the personnel management and staffing costs by individual and further break down the percent of time each individual will be working on the project. Other administrative costs associated with project management should also be identified.

- **Fringe Benefits:** The proposal should show the rates and calculation of the costs for each labor category and the salary amounts to which they are applied.

  If the rates have been approved/negotiated by a Government agency, **provide a copy of the memorandum/agreement**. If the rates applied are composition rates, or the rates have not been approved / negotiated, provide sufficient detail to enable a determination of allowability, allocability, and reasonableness of the allocation bases, and how the rates are calculated according to applicable OMB Circulars or FAR/DFARS provisions.

- **Travel:** The proposed travel cost should include the following for each trip: the purpose of the trip, origin and destination if known, approximate duration, the number of travelers, and the estimated cost per trip, which must be justified based on the organization’s historical average cost per trip or other reasonable basis for estimation such as quotes from online airline vendors. Such estimates and the resultant costs claimed must conform to the applicable Federal cost principles. Provide your institution’s travel policy.

  Explain why travel is a necessary and/or cost-effective component of the technical approach/methodology, as well as why the travel destination was chosen. Offeror employees should include here their travel to the 2014 Multi-INT Research Summit to be held in August 2014.

- **Participant Support Costs:** This budget category refers to costs of transportation, per diem, stipends, and other related costs for participants or trainees (but not Offeror employees) in connection with the NPS-sponsored conference. Generally, indirect costs are not allowed on participant support costs. The number of participants to be supported should be entered in the parentheses on the budget form. These costs should also be
justified in the budget justification page(s) attached to the cost proposal.

**NOTE:** Funds provided cannot be used for payment to any Federal Government employee or support, subsistence, or services in connection with the proposed conference.

- **Subawards:** Subawards should be utilized only when the awardee deems them necessary for achieving the project objectives. Provide a description of the work to be performed by the sub-recipient institution. For each subaward, a detailed cost proposal is required to be submitted by the sub-recipient and included in the proposal by the Offeror. Alternatively, the proposed subawardee’s or sub-recipient’s cost proposal can be provided via e-mail directly to the NPS Business POC at baa@nps.edu at the same time the prime proposal is submitted. The e-mail should identify the proposal title, the prime Offeror, and that the attached proposal is either a sub-contract or a sub-agreement. This proposal and supporting documentation must be received and reviewed before the Government can complete its cost analysis of the main Offeror’s proposal and enter negotiations.

**Provide specific information as follows:** (1) a clear description of the work to be performed; (2) if known, the identification of the proposed subawardee and an explanation of why and how the subawardee was selected or will be selected; (3) the identification of the type of award to be used (cost reimbursement, fixed price, etc.); (4) whether or not the award will be competitive and, if noncompetitive rationale to justify the absence of competition; and (5) a detailed cost summary.

- **Consultants:** Offerors normally are expected to utilize the services of their own staff to the maximum extent possible in managing and performing the project’s effort. If the need for consultant services is anticipated, the nature of proposed consultant services should be justified and included in the technical proposal narrative. The cost proposal should include the names of consultant(s), primary organizational affiliation, each individual’s expertise, daily compensation rate, number of days of expected service, and estimated travel and per diem costs. If not known, briefly describe how the consultants will be selected, what their anticipated hourly rate or daily compensation might be, the total hours or days expected from them, and the total estimated cost. Please provide documentation from a previous contract invoice to substantiate rate estimates.

**Materials and Supplies:** Provide an itemized list of all proposed materials and supplies including quantities, unit prices, proposed vendors (if known), and the basis for the estimate (e.g., formal or informal quotes, prior purchases, catalog price lists). Include supporting documentation for the estimates. Provide a copy of your organization’s purchasing policy or note that no formal policy exists.

- **Recipient Acquired Equipment or Facilities:** Equipment and/or facilities are normally furnished by the Recipient. If acquisition of equipment and/or facilities is proposed, a justification for the purchase of the items must be provided. Provide an itemized list of all equipment and/or facilities costs and the basis and supporting documentation for the estimate (e.g., formal or informal quotes, prior purchases, catalog price lists). Allowable items normally would be limited to research equipment not already available for the project. General-purpose equipment (i.e., equipment not used exclusively for research, scientific or other technical activities, such as personal computers, office equipment and furnishings, etc.) should not be requested unless they will be used primarily or exclusively
for the project. For computer/laptop purchases and other general-purpose equipment, if proposed, include a statement indicating how each item of equipment will be integrated into the program or used as an integral part of the research effort.

- **Other Direct Costs:** Provide an itemized list of all other proposed other direct costs such as Graduate Assistant tuition, laboratory fees, report and publication costs. Include a basis for the estimates (e.g., quotes, prior purchases, catalog price lists).

- **Indirect Costs (i.e., F&A, Overhead, G&A, etc.):** Show the rates and calculation of the costs for each rate category, listing the base on which the rate is applied.

If the rates have been approved/negotiated by a Government agency, provide a copy of the memorandum /agreement. If the rates have not been approved/negotiated, provide sufficient detail to enable a determination of allowability, allocability and reasonableness of the allocation bases, and how the rates are calculated according to applicable OMB Circulars or FAR/DFARS provisions. Offerors’ disclosure should be sufficient to permit a full understanding of the content of the rate(s) and how it was established.

At a minimum, the submission should identify: (1) All individual cost elements included in the forecast rate(s); (2) Bases used to prorate indirect expenses to cost pools, if any; (3) How the rate(s) was calculated; (4) Distribution basis of the developed rate(s); (5) Bases on which the overhead rate is calculated, such as "salaries and wages" or "total costs," and (6) The period of the Offeror's fiscal year. Additional information may be requested, if needed. If composite rates are used, provide the calculations used in deriving the composite rates.

Additional information may be requested, if needed. If composite rates are used, provide the calculations used in deriving the composite rates. A Negotiated Indirect Cost Rate Agreement (NICRA) may be required in order for an awardee to invoice for indirect costs. If the Offeror does not currently hold a NICRA, describe the current status of the organization's request for such an agreement with a cognizant agency.

**NOTE:** The 2010 National Defense Authorization Act (NDAA) provided for an Indirect Cost Cap of 35% for all 6.1 (basic research) funded awards; future appropriations may do the same, and if they do, this will be stipulated in any award document.

*At the time this BAA was posted, there was no Indirect Cost Cap.*

- **Fee/Profit:** Fee/profit is unallowable under assistance agreements at either the prime or subaward level but may be permitted on subcontracts issued by the prime awardee.

**NOTE:** Failure to adequately provide detailed cost data will require the FLC San Diego Grants Officer to contact the proposing organization for the requisite information. This will result in a delay of the award. All Offerors are required to submit a thoroughly detailed cost breakdown. The FLC San Diego Grants Officer must be able to determine that all proposed costs are allowable and reasonable. A detailed budget will facilitate this cost analysis.
D. Full Proposal Content – Biographical Information

Biographical information or curriculum vita of each member of the research team should address the following in three (3) pages or less per person:

- Advanced education, including degree type, discipline or department, institution, and title of thesis or dissertation
- Current and most relevant past professional experience, including position, title, organization, and dates of employment
- Related publications, professional activities, honors, awards, patents, and other accomplishments.
- Research specifically related to the proposed project and relevant experience of investigator(s)

2. Significant Dates and Times: This announcement will remain open until 5:00 p.m. (PDT) 15 September 2014, or until replaced by a successor BAA. **However, in order to be considered for an FY14 award, full proposals should be submitted no later than 5:00 p.m. (PDT) 18 October 2013.**

3. Submission of Late Proposals: Not applicable (N/A).


All grant proposals shall be submitted through Grants.gov using the application package template associated with this BAA. Additional documents and attachments described above should be generated and then uploaded and attached where indicated on the grants.gov website.

Registration Requirements for Grants.gov: There are several one-time actions you must complete in order to submit an application through Grants.gov. These include obtaining a Dun and Bradstreet Data Universal Numbering System (DUNS) number, registering with the System of Award Management (SAM), registering with the Credential Provider, and registering with Grants.gov. See [http://www.grants.gov/web/grants/home.html](http://www.grants.gov/web/grants/home.html), specifically [http://www.grants.gov/web/grants/applicants.html](http://www.grants.gov/web/grants/applicants.html). The Grants.gov Organization Registration Checklist at [http://www.grants.gov/web/grants/applicants/grant-application-process.html](http://www.grants.gov/web/grants/applicants/grant-application-process.html) will guide you through the process. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called ‘MPIN’ are important steps in the SAM registration process. Applicants, who are not registered with SAM and Grants.gov, should allow at least 21 days for completion of these requirements. It is suggested that the process be started as soon as possible.

Questions relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 (1-606-545-5035 for foreign applicants) or e-mail: support@grants.gov.

By completing **Block 17 of the SF 424 R&R**, the Grant Applicant is providing the certification on lobbying required by 32 CFR Part 28. Refer to Section VI,
Award Administration Information entitled “Certifications” for further information.

Grants.gov Full Proposal Submission:

Application forms and instructions are available at Grants.gov. To access these materials, go to http://www.grants.gov, select "Apply for Grants", and then select "Download Application Package." In the box labeled Funding Opportunity Number, enter NPS-BAA-13-005, designated as “Research Opportunity Number.” Click on the button labeled “Download Package.” Follow the instructions on the Grants.gov page to complete the application download process.

It is recommended that you first complete the form “SF 424 R&R,” which will then populate data in the other forms. Complete all the required fields in accordance with the pop-up instructions on the form. To activate the instructions, turn on the “Help Mode” (icon with the pointer and question mark at the top of the form).

You must complete the mandatory forms and any applicable optional forms (e.g., SF-LLL Disclosure of Lobbying Activities) in accordance with the instructions on the forms and the additional instructions provided in this BAA. All attachments to grant applications submitted through Grants.gov must be in Adobe Portable Document Format (PDF) unless otherwise specified in this announcement.

Proprietary information may be included on submitted forms, supporting documentation, and the cost proposal. All such information should be denoted with asterisks (***) at the beginning and end of the proprietary information; alternatively, a page with considerable proprietary information can display the statement “Proprietary Information” in its header or footer. Statements of Work within the Technical Proposal should NOT include proprietary information or other restricted or protected information.

All applications must be self-contained within specified page limitations. Internet website addresses (URLs), with the exception of cost-proposal supporting documentation of Offeror policies and procedures, may not be used to provide information necessary to the review, because reviewers are under no obligation to view the Internet sites.

Special Notice Regarding a Waiver of Grants.gov Proposal Submission Requirement:

If an Offeror is unable to comply with the requirement to use grants.gov for submission of a grant application under this BAA or finds it would be an excessive burden to comply with this requirement, a waiver request may be submitted. Such request should be submitted by the Electronic Business Point of Contact listed in the SAM for the Offeror organization and should contain the Organization and individual’s name, address, telephone number, and e-mail address. The request should state the reason for the request in sufficient detail so a decision can be made. The Waiver Request should be submitted to both the Grant Officer at NAVSUP FLC San Diego and to the Grants Management Specialist at the Naval Postgraduate School as identified in Section I (General Information), Item 7 above. Such requests can be sent by email or registered mail.

A decision and response will be issued within 14 calendar days of receipt of the request by the Grants Specialist. Foreign Grantees who are not registered in the
SAM may request a waiver on that basis since SAM registration is integral to the Grants.gov application process. If the waiver is approved, NPS will provide a packet of all required documents and submission instructions via email or in hard copy via registered mail.

IV. EVALUATION INFORMATION:

1. Evaluation Criteria:

Award decisions will be based on a competitive selection of proposals resulting from a scientific and cost review. Evaluations will be conducted using the following evaluation criteria:

A. Overall scientific and technical merits of the proposal, including:
   1) Quality and rigor of proposal
   2) Thoroughness, clarity, and parsimony of the proposal
   3) Feasibility of research design, technical approach, and proposed methodology
   4) Potential impact of research results
   5) Publication potential of research results

B. Potential Naval relevance and contributions of the effort to the Agency’s specific mission

C. Potential benefit to the public

D. The Offeror’s capabilities, related experience, facilities, techniques or unique combinations of these, which are integral factors for achieving the proposal objectives

E. The qualifications, capabilities and experience of the proposed Technical POC (Principal Investigator (PI)), team leader, and/or other key personnel who are critical to achievement of the proposed objectives and must commit time and attention to ensure success of the project

F. The realism of the proposed costs and the demonstrated ability to deliver an effective research project at a reasonable cost

G. Availability of funds.

While overall cost (if funds are available) is the least important factor in making a decision, the realism, reasonableness, and effectiveness of the research costs must be affirmatively established before award. It is noted, too, that the degree of its importance in the overall award will increase with the degree of equality of the proposals’ other evaluation factors. The importance of cost may also increase when the costs are so significantly high as to diminish the value of the proposal’s technical superiority to the Government.

2. Evaluation Panel:

Technical and cost proposals as well as forms and supporting documentation submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR
3.104-5 and 15.207. The cognizant NPS Principal Investigator or other technical experts
drawn from Government, industry, or academe will perform the evaluation of technical
proposals. Cost proposals will be evaluated by Government business professionals.
Restrictive notices notwithstanding, one or more support contractors may be utilized as
subject-matter-expert technical consultants. Similarly, support contractors may be utilized to
evaluate cost proposals. However, proposal selection and award decisions are solely the
responsibility of Government personnel. Each support contractor having access to technical
and cost proposals submitted in response to this BAA will be required to sign a non-
disclosure statement prior to receipt of any proposal submissions.

V. AWARD ADMINISTRATION INFORMATION:

1. Administrative Requirements:

   • The North American Industry Classification System (NAICS) code: The North
     American Industry Classification System (NAICS) code for this announcement is
     541720 with a small business size standard of $19.0M.

   • System of Award Management (SAM): All Offerors submitting proposals or
     applications must: (a) be registered in the System of Award Management (SAM) prior
     to submission; (b) maintain an active SAM registration with current information at all
     times during which it has an active Federal award or an application under
     consideration by any agency; and (c) provide its DUNS number in each Full Proposal
     it submits to NPS via Grants.gov.

2. Certifications and Assurances:

   Certification Regarding Lobbying Activities – Grant awards greater than
   $100,000 require a certification of compliance with a national policy mandate
   concerning lobbying. Grant applicants shall provide this certification by electronic
   submission of SF424 (R&R) as a part of the electronic proposal submitted via
   Grants.gov (complete Block 17); the following certification applies to each applicant
   seeking federal assistance funds exceeding $100,000:

   1) No Federal appropriated funds have been paid or will be paid by or on behalf
      of the applicant, to any person for influencing or attempting to influence an
      officer or employee of an agency, a Member of Congress, an officer or
      employee of Congress, or an employee of a Member of Congress in
      connection with the awarding of any Federal contract, the making of any
      Federal grant, the making of any Federal loan, the entering into of any
      cooperative agreement, and the extension, continuation, renewal,
      amendment, or modification of any Federal contract, grant, loan, or
      cooperative agreement.

   2) If any funds other than Federal appropriated funds have been paid or will be
      paid to any person for influencing or attempting to influence an officer or
      employee of any agency, a Member of Congress, an officer or employee of
      Congress, or an employee of a Member of Congress in connection with the
      Federal contract, grant, loan, or cooperative agreement, the applicant shall
      complete and submit Standard Form-LLL, “Disclosure Form to Report
      ...
Lobbying,” in accordance with its instructions.

3) The applicant shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S.C. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

3. **All Applicants must submit the application using the SF-424 series, which include the following:**

   **SF-424 R&R, Application for Federal Assistance** - (included in the application package available on grants.gov posted with this BAA).

   **SF-424A, Budget Information - Nonconstruction Programs** - (included in the application package available on grants.gov posted with this BAA).

   **SF-424B, Assurances - Nonconstruction Programs** - (included in the application package available on grants.gov posted with this BAA).

4. **Policy Requirements:**

Any award issued as a result of this announcement is subject to the following administrative, cost, and national policy requirements contained therein:


- Department of Defense Grant and Agreement Regulations (DoDGARS 3210.6-R). An electronic copy of DoDGARs may be found at [http://www.dtic.mil/whs/directives/corres/html/321006r.html](http://www.dtic.mil/whs/directives/corres/html/321006r.html)


- OMB Circular A-133. “Audits of States, Local Governments, and Non-Profit Organizations.”
VI. OTHER INFORMATION

1. Government Property/Government Furnished Equipment (GFE) and Facilities:

Government research property, facilities and operational military units are available and should be considered as potential government furnished equipment/facilities. These facilities and resources are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for any one specific program. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain as parts of their proposal which of these facilities are critical for the project’s success.

2. Security Classification:

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level to the maximum extent possible. Normally, work under a grant does not require access to classified material. If access to classified material will be required at any point during performance, the Offeror must clearly identify such need prominently in its proposal. An unclassified final report is required in order that the general public may benefit from the research findings.

The Statement of Work in the Technical Proposal must be unclassified and must not contain Controlled Unclassified Information.

3. Use of Animals and Human Subjects in Research:

If animals are to be utilized in the research effort proposed, the Offeror must complete prior to award a DoD Animal Use Protocol with supporting documentation (copies of AALAC accreditation and/or NIH assurance, IACUC approval, research literature database searches, and the two most recent USDA inspection reports). For assistance with submission of animal research-related documentation, contact the NPS Grant Management Specialist at baa@nps.edu.

Similarly, for any proposal for research involving human subjects, the Offeror must submit prior to award: documentation of approval from an Institutional Review Board (IRB); IRB-approved research protocol; IRB-approved informed consent form; proof of completed human research training (e.g., training certificate or institutional verification of training); and application for a DoD-Navy Addendum to the Offeror’s DHHS-issued Federal Wide Assurance (FWA) or the Offeror’s DoD- Navy Addendum. In the event that an exemption criterion under 32 CFR.219.101 (b) is claimed, provide documentation of the determination by the Institutional Review Board (IRB) Chair, IRB vice Chair, designated IRB administrator or official of the human research protection program, including the category of exemption and short rationale statement. If the research is determined by the IRB to be greater than minimal risk, the Offeror also must provide the name and contact information for the independent medical monitor. This documentation shall be submitted to the NPS Institutional Review Board Administrator via NPS Grant Support at baa@nps.edu.

4. Recombinant DNA:

Proposal that call for experiments using recombinant DNA must include documentation of compliance with Department of Human and Health Services (DHHS) recombinant DNA
regulations, approval of the Institutional Biosafety Committee (IBC), and copies of the DHHS Approval of the IBC letter.

5. Protection of Proprietary and Sensitive Information:

The parties acknowledge that, during performance of the grant resulting from this BAA, the recipient may require access to certain proprietary and confidential information (whether in its original or derived form) submitted to or produced by the Government. Such information includes, but is not limited to, business practices, proposals, designs, mission or operation concepts, sketches, management policies, cost and operating expense, technical data and trade secrets, proposed Navy budgetary information, and acquisition planning or acquisition actions, obtained either directly or indirectly as a result of the effort performed on behalf of NPS.

The recipient shall take appropriate steps not only to safeguard such information, but also to prevent disclosure of such information to any party other than the Government. The recipient agrees to indoctrinate company personnel who will have access to or custody of the information concerning the nature of the confidential terms under which the Government received such information and shall stress that the information shall not be disclosed to any other party or to recipient personnel who do not need to know the contents thereof for the performance of the contract/agreement. Recipient personnel shall also be informed that they shall not engage in any other action, venture, or employment wherein this information will be used for any purpose by any other party.

As set forth herein, Recipient acknowledges and agrees that third-party support contractors may access technical information submitted by Recipient. Government will ensure that the contractor employee has a signed non-disclosure agreement with its employer (on record); and, Government will ensure that the contractor employer, likewise, has a signed Organizational Conflict of Interest clause with the Government precluding exploitation of any kind of non-public data it accesses as a result of its Government contract effort(s).

6. Organizational Conflict of Interest:

All Offerors and proposed subawardees must affirm whether they are providing scientific, engineering, and technical assistance (SETA) or similar support to any NPS through an active contract or subcontract. All affirmations must state which office(s) the Offeror supports and identify the prime contract numbers. Affirmations shall be furnished at the time of proposal submission. All facts relevant to the existence or potential existence of organizational conflicts of interest (FAR 9.5) must be disclosed. The disclosure shall include a description of the action the Offeror has taken or proposes to take to avoid, neutralize, or mitigate such conflict. In accordance with FAR 9.503 and without prior approval, a contractor cannot simultaneously be a SETA and a research and development performer. Proposals that fail to fully disclose potential conflicts of interests or do not have acceptable plans to mitigate identified conflicts will be rejected without technical evaluation and withdrawn from further consideration for award.

If a prospective Offeror believes that any conflict of interest exists or may exist (whether organizational or otherwise), the Offeror should promptly raise the issue with NPS by sending his/her contact information and a summary of the potential conflict by e-mail to the Business Point of Contact in Section I, item 7 above, before time and effort are expended in
preparing a proposal and mitigation plan. If, in the sole opinion of the Government after full consideration of the circumstances, any conflict situation cannot be effectively avoided or mitigated, the proposal may be rejected without technical evaluation and withdrawn from further consideration for award under this BAA.

7. Acknowledgement of Naval Postgraduate School (NPS) Support:

NPS’s full or partial support must be acknowledged in journal articles, oral or poster presentations, news releases, interviews with reporters, and other communications. Any documents developed under an award agreement resulting from this BAA that are intended for distribution to the public or inclusion in a scientific, technical, or other journal shall include the following statement:

This publication [article] was developed under work supported by the Naval Postgraduate School Assistance Agreement No. awarded by the Naval Supply Systems Command (NAVSUP) Fleet Logistics Center San Diego (NAVSUP FLC San Diego). It has not been formally reviewed by NPS. The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the NPS or NAVSUP FLC San Diego. The NPS and NAVSUP FLC San Diego do not endorse any products or commercial services mentioned in this publication.

8. Military Recruiting On Campus:

Military Recruiting on Campus (DoDGARS Part 22.520) applies to domestic U. S. colleges and universities. Appropriate language from 32CFR22.520, Campus Access for Military Recruiting and Reserve Officer Training Corps (ROTC), will be incorporated in all university grant awards.

9. Intellectual Property:

Offerors responding to this BAA must submit a separate list of all technical data or computer software that will be furnished to the Government with other than unlimited rights. The Government will assume unlimited rights if Offerors fail to identify any intellectual property restrictions in their proposals. Include in this section all proprietary claims to results, prototypes, and/or deliverables. If no restrictions are intended, then the Offeror should state “NONE.”