



ONR Broad Agency Announcement (BAA)

N0001424SB002

Office of Naval Research Science and Technology for Advanced Manufacturing Projects (STAMP)

The Department of Defense Manufacturing Technology Program (ManTech) is the Defense Department's investment mechanism for staying at the forefront of defense-essential manufacturing capability. The Program develops technologies and processes for the affordable and timely production and sustainment of defense systems. The Program impacts all phases of acquisition. It aids in achieving reduced acquisition and total ownership costs by developing, maturing, and transitioning key manufacturing technologies. ONR will focus investments on those that have the most benefit to the warfighter and include quick-hitting, rapid response projects to address immediate manufacturing needs.

TABLE OF CONTENTS

Section	Page #
I. OVERVIEW OF THE RESEARCH OPPORTUNITY	BAA-4
A. Required Overview Content	BAA-5
1. Federal Awarding Agency Name	BAA-5
2. Funding Opportunity Title	BAA-5
3. Announcement Type	BAA-5
4. Funding Opportunity Number	BAA-5
5. Assistance Listings	BAA-5
6. Key Dates	BAA-5
7. North American Industry Classification System (NAICS) Code	BAA-5
8. Contracting and Grants Officer	BAA-5
II. DETAILED INFORMATION ABOUT THE RESEARCH OPPORTUNITY	BAA-6
A. Program Description/Objectives	BAA-6
B. Federal Award Information	BAA-7
1. Eligibility for Competition	BAA-7
2. Contracted Fundamental Research	BAA-7
3. Funded Amount and Period of Performance	BAA-8
4. Instrument Type(s)	BAA-8
5. Model Contracts & Grants	BAA-9
C. Eligibility Information	BAA-10
1. Eligible Applicants	BAA-10
2. Cost Sharing or Matching	BAA-10
D. Application and Submission Information	BAA-11
1. Address to Request (Access) Application Package	BAA-11
2. Content and Format of Application Submission	BAA-11
3. Unique Entity Identifier and System for Award Management (SAM)	BAA-15
4. Submission Dates and Times	BAA-15
5. Intergovernmental Review	BAA-15
6. Funding Restrictions	BAA-15
7. Other Submission Requirements	BAA-15
E. Application Review Information	BAA-16
1. Criteria	BAA-16
2. Review and Selection Process	BAA-17
3. Recipient Qualifications	BAA-20
F. Federal Award Administration Information	BAA-20
1. Federal Award Notices	BAA-20

2. Administrative and National Policy Requirements	BAA-21
3. Reporting	BAA-26
G. Federal Awarding Agency Contacts	BAA-26
H. Other Information	BAA-27

III. APPENDICES
1. Requirements Applicable to Grants and Cooperative Agreements Only
2. Requirements Applicable to Contracts and Other Transaction Agreements Only
2-1. Manufacturing Innovation Institutes

I. OVERVIEW OF THE RESEARCH OPPORTUNITY

This publication constitutes a Broad Agency Announcement (BAA) for awards by the Office of Naval Research (ONR) Contact and Grants Awards Management Division, ONR Code 25 (or others approved by Code 25) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2) and 35.016 and by the Office of the Under Secretary of Defense for Acquisition and Sustainment Guide to Research Other Transactions Under 10 U.S.C. 4021 (JUN 2023 and the Other Transaction Guide version 2.0 dated July 2023).

It also constitutes a merit-based, competitive procedure, in accordance with the Department of Defense Grant and Agreement Regulations (DoDGARS), at 32 CFR 22.315(a). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

ONR reserves the right to fund all, some, or none of the proposals received under this BAA. ONR provides no funding 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 ONR to treat all proposals submitted under this BAA as sensitive competitive information and to disclose their contents only for the purposes of evaluation.

BAA Call: BAA Calls will be posted to the ONR website under Broad Agency Announcements (BAA), Funding Opportunity Announcements (FOA) and Special Program Announcements at <https://www.nre.navy.mil/work-with-us/funding-opportunities>, to <https://sam.gov/content/home> and <https://www.grants.gov/>, as applicable, and the BAA Calls will make reference to this BAA for submission instructions.

Each BAA Call will provide a description of the specific research effort being solicited, the application process to be used, as well as the recommended dates for submission of proposals. Proposals submitted in response to the BAA Calls shall be submitted under this BAA following the instructions contained in this BAA. Proposals will be evaluated in accordance with the criteria set forth in this BAA. Interested parties are urged to periodically check the ONR website (<https://www.nre.navy.mil/work-with-us/funding-opportunities>), Sam.gov - Contract Opportunities (<https://sam.gov/content/opportunities>) and Grants.gov (<https://www.grants.gov/>) websites for new BAA Calls.

A. Required Overview Content

1. Federal Awarding Agency Name

Office of Naval Research
One Liberty Center
875 N. Randolph Street
Arlington, VA 22203-1995

2. **Funding Opportunity Title** - Broad Agency Announcement (BAA) for Science & Technology for Advanced Manufacturing Projects (STAMP)
3. **Announcement Type** - Initial Announcement
4. **Funding Opportunity Number** - N0001424SB002
5. **Assistance Listings** - 12.300

Department of Defense (DOD), Department of the Navy, Office of Chief of Naval Research, Basic and Applied Scientific Research

6. **Key Dates**

This announcement will remain open for approximately one (1) year from the date of publication, or until replaced by a successor BAA. Proposals may be submitted at any time during this period. This announcement replaces N0001423SB003 published 17 January 2023, as amended. Submission of Late Proposals (Applicable to White Papers and Full Proposals) - the Government reserves the right not to review proposals submitted after 31 March 2025, or after a successor to this Long Range BAA is issued, whichever occurs first.

7. **North American Industry Classification System (NAICS) code** - The NAICS code for contracts under this announcement is “541715” with a small business size standard of “1,000 employees.” The ONR Reps and Certs shall include this NAICS and size standard.
8. **Contracting and Grants Officer** - The Contracting Officer and Grants Officer for this announcement are identified under Section II, subparagraphs G.3 and G.4, respectively. For any BAA Call, the Contracting Officer will be identified in the BAA Call.

II. DETAILED INFORMATION ABOUT THE RESEARCH OPPORTUNITY

A. Program Description/Objective –.

The Department of Defense (DoD) Manufacturing Technology Program (ManTech) is the Defense Department’s investment mechanism for staying at the forefront of defense-essential manufacturing capability. The Program develops technologies and processes for the affordable and timely production and sustainment of defense systems. The Program impacts all phases of the product life-cycle. It aids in achieving reduced acquisition and total ownership costs by developing, maturing, and transitioning key manufacturing technologies. ONR will focus investments on those that have the most benefit to the warfighter and include quick-hitting, rapid response projects to address immediate manufacturing needs.

The DoD ManTech Program targets the needs of our warfighters and weapon system programs by helping to find and implement affordable low-risk solutions. The ManTech Program:

1. Provides the crucial link between technology invention and development and industrial applications;
2. Matures and validates emerging manufacturing technologies to support low-risk implementation in industry and DoD facilities, for example depots and other organic repair facilities;
3. Addresses production issues from system development through transition to production and sustainment;
4. Disseminates information concerning improved manufacturing improvement concepts, including information on such matters as best manufacturing practices, product data exchange specifications, computer-aided acquisition and logistics support, and rapid acquisition of manufactured parts; and
5. Sustains and enhances the skills and capabilities of the manufacturing work force.

Using the authority of the Manufacturing Technology Program codified at 10 U.S.C. §4841 the DoD ManTech established a group of manufacturing innovation institutes in technology areas with relevance to military systems. These institutes are executed and managed by the services (Army, Air Force, and Navy). Each institute consists of members, including private companies, nonprofit organizations, academic institutions, federal laboratories, and state and local governments. These DoD-managed institutes are also involved in the Department of Commerce Manufacturing USA network as part of a long-term collaborative partnership-of- choice in light of a common purpose.

The overall goal of this BAA effort is to continue to support Manufacturing Technology projects that offer potential for advancement and improvement of military operations in areas that address the focus areas of the DoD ManTech Program as noted in the above paragraphs, and the DoD-managed Manufacturing Innovation Institutes, as noted in the above paragraphs, and the Manufacturing Innovation Institutes (MIIs), as described in Appendix 2-1. The long-term goals of this BAA are to create market expansion; and components and systems utilizing new optimized high performing material systems across defense, aerospace, automotive, energy, and consumer products industries.

The focus of this BAA is primarily on projects that continue to advance the systems engineering approach needed for the design, fabrication, and manufacture of structural components to address challenges in system weight, performance, affordability, and/or survivability. The foundation of this approach should include the integration of materials information, captured in computational tools, with engineering product performance analysis and manufacturing-process simulation termed commonly as Integrated Computational Materials Engineering (ICME). From this foundation it is expected the integration of manufacturing process information and product performance information utilizing the full range of engineering and analytical tools, processes, and principles to improve efficiency and effectiveness of their integrated approach. The intent is to bring together materials designers, materials suppliers, product designers, and manufacturers to collaborate on the design, production, and commercialization of novel affordable, manufacturable systems. Projects may include basic and applied research, technology and component development, and prototyping; but may also focus on manufacturing supply-chain technical support and integration, workforce development, and manufacturing education. This BAA will not be affecting the current Navy ManTech investment strategy, and project selection process.

Prior to preparing proposals, potential Offerors are encouraged strongly to contact the ONR technical point of contact (POC) identified for this program.

B. Federal Award Information

1. **Eligibility for Competition.** Proposals for supplementation of existing projects are eligible to compete with applications for new Federal awards under this BAA.

2. **Contracted Fundamental Research.** With regard to any restrictions on the conduct or outcome of work funded under this BAA, ONR will follow the guidance on and definition of “contracted fundamental research” as provided in the Under Secretary of Defense (Acquisition, Technology and Logistics) Memorandum of 24 May 2010. The memorandum can be found at [https://www.acq.osd.mil/dpap/dars/pgi/docs/2012-D054%20Tab%20D%20OUSD%20\(ATL\)%20memorandum%20dated%20May%2024%202010.pdf](https://www.acq.osd.mil/dpap/dars/pgi/docs/2012-D054%20Tab%20D%20OUSD%20(ATL)%20memorandum%20dated%20May%2024%202010.pdf)

As defined therein, the definition of “contracted fundamental research,” in a DoD contractual context, includes research performed under grants and contracts that are (a) funded by RDT&E Budget Activity 1 (Basic Research), whether performed by universities or industry or (b) funded by Budget Activity 2 (Applied Research) and performed on campus at a university.

Pursuant to DoD policy, research performed under grants and contracts that are (a) funded by Budget Activity 2 (Applied Research) and NOT performed on-campus at a university or (b) funded by Budget Activity 3 (Advanced Technology Development) or Budget Activity 4 (Advanced Component Development and Prototypes) does not meet the definition of “contracted fundamental research.” In conformance with the USD (AT&L) guidance and National Security Decision Directive 189 found at: https://www.acq.osd.mil/dpap/dars/pgi/docs/National_Security_Directive_189.pdf ONR will place no restriction on the conduct or reporting of unclassified “contracted fundamental research,” except as otherwise required by statute, regulation or executive order. The research shall not be considered fundamental in those rare and exceptional circumstances where the applied research effort presents a high likelihood of disclosing performance characteristics of military systems or manufacturing technologies that are unique and critical to defense, and where agreement on restrictions have been recorded in the contract or grant. For certain research projects, it may be possible that although the research being performed by the prime contractor is restricted research, a subcontractor may be conducting “contracted fundamental research.” In those cases, it is the ***prime contractor’s responsibility*** in the proposal to identify and describe the subcontracted unclassified research and include a statement confirming that the work has been scoped, negotiated, and determined to be fundamental research according to the prime contractor and research performer.

Normally, fundamental research is awarded under grants with universities and under contracts with industry. Non-fundamental research is normally awarded under contracts and may require restrictions during the conduct of the research and DoD pre-publication review of such research results due to subject matter sensitivity. Potential offerors should consult with the ONR Technical POCs to determine whether the proposed effort would constitute

fundamental or non-fundamental research.

3. **Funded Amount and Period of Performance.** The funded amount and period of performance of each proposal selected for award may vary depending on the STAMP technology area and the technical approach to be pursued by the offeror selected.

4. **Instrument Type(s).** Awards may take the form of contracts, grants, cooperative agreements, and other transaction agreements, as appropriate. The following provides brief descriptions of potential instrument types:

a. **Procurement Contract.** A legal instrument, consistent with 31 U.S.C. 6303, which reflects a relationship between the Federal Government and another entity/contractor when the principal purpose of the instrument is to acquire property or services for the direct benefit or use of the Federal Government.

b. **Assistance Instruments.** The applicable regulations are 2 CFR 200, “Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards,” as implemented by 2 CFR Chapter XI, Subchapter A and DoDGARs at 32 CFR Subchapter C. Any assistance instrument awarded under this announcement will be governed by the award terms and conditions that conform to DoD’s implementation of Office of Management and Budget (OMB) circulars applicable to financial assistance. The DoD Terms and Conditions are located at <https://www.nre.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions>

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

- 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 Federal Government’s direct benefit or use.
- In which substantial involvement is not expected between the Federal Government and the recipient when carrying out the activity contemplated by the grant.
- No fee or profit is allowed

ii. *Cooperative Agreement.* A legal instrument which, consistent with 31 U.S.C 6305, is used to enter into the same kind of relationship as a grant, except:

- Substantial involvement is expected between the Federal Government and the recipient when carrying out the activity contemplated by the cooperative agreement. *(For information on the substantial involvement ONR expects to have in cooperative agreements, prospective offerors*

should contact the Technical Point of Contact identified in the technology area of interest.)

- *The term does not include "cooperative R&D agreements (CRADA)" as defined in 15 U.S.C. 3710a*
- No fee or profit is allowed.

c. **Other Transaction Agreement (OTA) for Research.** A legal instrument, consistent with 10 U.S.C. § 4021, which may be used for basic, applied, and advanced research projects. To the maximum extent practicable, an OTA for research shall provide for a 50/50 cost share between the Government and the performer. The effort covered under an OTA shall not be duplicative of effort being conducted under an existing DoD program. Please refer to the Office of the Under Secretary of Defense for Acquisition and Sustainment Guide to Research Other Transactions Under 10 U.S.C. 4021 (June 2023) and Other Transaction Guide version 2.0 dated July 2023 for additional information. These documents, along with other OTA resources, may be accessed at the following links:

- Guide to Research Other Transactions Under 10 U.S.C. 4021 dated June 2023: <https://www.acq.osd.mil/asda/dpc/cp/policy/docs/guidebook/Guide%20to%20Research%20Other%20Transactions.pdf>
- Other Transaction Guide version 2.0 dated July 2023: https://www.acq.osd.mil/asda/dpc/cp/policy/docs/guidebook/TAB%20A1%20-%20DoD%20OT%20Guide%20JUL%202023_final.pdf

d. **Other Transaction Agreement (OTA) for Prototypes.** A legal instrument, consistent with 10 U.S.C. § 4022, which may be used for prototype projects directly relevant to enhancing the mission effectiveness of military personnel and the supporting platforms, systems, components, or materials proposed to be acquired or developed by the Department of Defense, or for improvement of platforms, systems, components, or materials in use by the armed forces. The effort covered under an OTA shall not be duplicative of effort being conducted under an existing DoD program. Please refer to the DoD “Other Transactions Guide” dated July 2023, for additional information. This document, along with other OTA resources, may be accessed at the following link:

https://www.acq.osd.mil/asda/dpc/cp/policy/docs/guidebook/TAB%20A1%20-%20DoD%20OT%20Guide%20JUL%202023_final.pdf

5. **Model Contracts and Grants** – The model contracts and grants at the links below are only provided as examples. In the event of any conflict between these examples and current FAR, DFARS, NMCARS, or ONR clauses, current FAR, DFARS, NMCARS, or ONR clauses will govern.

- Examples of model contracts can be found on the ONR website at the following link: <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-contract-proposal>
- Examples of model grants can be found on the ONR website at the following link: <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-grant-application>

C. Eligibility Information

1. Eligible Applicants

All responsible sources from academia, industry and the research community worldwide 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 HBCUs/MIs, small businesses or other socio-economic participation. All businesses, both small and large, are encouraged to submit proposals and compete for funding consideration.

Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, **are not** eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal Offerors are allowed so long as such arrangements are permitted under the sponsoring agreement between the Government and the specific FFRDC.

Navy laboratories, military universities and warfare centers as well as other Department of Defense and civilian agency laboratories are also not eligible to receive awards under this BAA and should not directly submit either white papers or full proposals in response to this BAA. If any such organization is interested in one or more of the programs described herein, the organization should contact an appropriate ONR Technical POC to discuss its area of interest.

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

Teams are also encouraged and may submit proposals in any areas; however, Offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators, selected by ONR.

Disclosures of current and pending support made in this application may render an applicant ineligible for funding. Prior to award and throughout the period of performance, DoD may continue to request updated continuing and pending support information, which will be reviewed and may result in discontinuation of funding.

2. Cost Sharing or Matching

Cost sharing is not expected under contracts and assistance awards and will not be used as a factor during the merit review of any proposal hereunder; however, the Government may consider voluntary cost sharing if proposed. Additional guidance can be found at 2 CFR 200.306 and FAR 35.003. See section B. Federal Award Information/4. Instrument Type(s)/c. Other Transaction Agreement (OTA) for Research for information on cost sharing for OTs awarded under 10 U.S.C. § 4021 and 10 U.S.C. § 4022.

D. Application and Submission Information

1. Address to Request (Access) Application Package

This BAA may be accessed from the sites below. Amendments, if any, to this BAA will be posted to these websites when they occur. Interested parties are encouraged to periodically check these websites for updates and amendments.

- a. Grants.gov (<https://www.grants.gov/>)
- b. System for Award Management (Sam.gov - Contract Opportunities) (<https://sam.gov/content/home>)
- c. ONR website (<https://www.nre.navy.mil/work-with-us/funding-opportunities>)

2. Content and Format of Application Submission

a. General Information

All submissions will be protected from unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains any proprietary information.

Titles given to the submissions should be descriptive of the work they cover and not be merely a copy of the title of this announcement.

b. Security Classification

White Papers and Proposals submitted under this BAA are expected to be unclassified; however, classified white papers/proposals are permitted. If a classified proposal is submitted and selected for award, the resultant contract will be unclassified. An 'unclassified' Statement of Work (SOW) must accompany any classified proposal.

Classified proposals shall be submitted directly to the attention of ONR's Document Control Unit at the following address and marked in the following manner:

OUTSIDE ENVELOPE - (no classification marking):

"Office of Naval Research
Attn: Document Control Unit
ONR Code 54
875 North Randolph Street
Arlington, VA 22203-1995"

The inner wrapper of the classified White Paper and/or Full Proposal should be addressed to the attention of the cognizant Technical POC, ONR Code 33 and marked in the following manner:

INNER ENVELOPE - (stamped with the overall classification of the material)

“Program Name: Science & Technology for Advanced Manufacturing Projects (STAMP)
Office of Naval Research
ATTN: Drs. William Mullins and Jeff Farren
ONR Code: 332
875 North Randolph Street
Arlington, VA 22203-1995”

c. Non-Proprietary Statement of Work

For all proposals, a non-proprietary version of the Statement of Work must also be submitted. Do not put proprietary data or markings in or on the Statement of Work. For proposals containing data that the offeror does not want disclosed to the public for any purpose, or used by the Government except for evaluation purposes, the contractor shall mark the title page with the following legend:

“This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed--in whole or in part--for any purpose other than to evaluate the proposal. If, however, a contract is awarded to this offeror as a result of--or in connection with-- the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government’s right to use information contained in this data if is obtained from another source without restriction. The data subject to this restriction are contained in (insert numbers or other identification of sheets).”

Each sheet of data that the offeror wishes to restrict must be marked with the following legend:

“Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this proposal.”

d. White Paper Requirements.

White Papers are frequently desired by ONR Program Officers. Offerors should consult the cognizant ONR Program Officer for each technology area regarding the desirability of White Paper submissions.

i. White Paper Format

- Paper Size – 8.5 x 11-inch paper
- Margins – 1 inch
- Spacing –single-spaced
- Font – Times New Roman, 12 point
- Page limit– 5 pages excluding cover page.

ii. White Paper Submissions

When email submission is required (per the instructions below), the white paper must be at least Microsoft Word 2016 or PDF compatible format. There is an email size limit of 5MB per email.

ONR is utilizing FedConnect for the submission of white papers. FedConnect is a web portal that bridges the gap between government agencies and performers to streamline the process of doing business with the government. Through this portal, performers will be able to review opportunities and submit white papers. To access FedConnect go to <https://www.fedconnect.net/FedConnect/default.htm>.

How to Register for FedConnect

A FedConnect how to guide can be found at https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf

See pages 25 through 33 of the FedConnect Ready Set Go guide for step-by-step instructions on how to submit your documents.

1) *Register with SAM*: All entities submitting a proposal through FedConnect must register with the System for Award Management (SAM) and will receive a unique entity identifier (UEI) number. Failure to register with SAM will prevent your organization from applying through FedConnect. In addition to having a UEI number, organizations applying online through Grants.gov must register with the System for Award Management (SAM). All organizations must register with SAM in order to apply online. If you have not registered in SAM, go to <https://www.sam.gov/SAM/>.

If you are the first person in your organization to register in FedConnect, your SAM Marketing Partner ID (SAM MPIN) will also be required. It is the number that is set up by your organization as part of the registration in SAM.gov.

2) *Create a FedConnect Account*: The next step in the registration process is to create an account with FedConnect.

FedConnect Assistance

If you need assistance, the FedConnect Support Team is standing by to assist you.

Email: fcsupport@unisonglobal.com

Phone: 1-800-899-6665

Hours: Monday – Friday, 8 a.m. to 8 p.m. EDT. Closed on Federal Holidays.

FedConnect Frequently Asked Questions can be found on the ONR website at <https://www.nre.navy.mil/work-with-us/how-to-apply/frequently-asked-questions>.

Do not use the Message Center within FedConnect to submit questions, please email the POCs identified in Section G., Federal Awarding Agency Contacts found on page BAA-28.

Do not use the Message Center within FedConnect to submit white papers.

iii. White Paper Content: White papers shall include the following:

- **Cover Page**: The Cover Page can be found at <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-contract-proposal> for contract submissions and at <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-grant-application> for grant submissions.

FedConnect will not accept a white paper unless the Cover Page is included.

For ONR - The Program Officer's information and correct email address are required fields on the cover page to ensure your proposal is received by your Program Officer. The Program Officer's information can be found on the ONR website at <https://www.nre.navy.mil/our-research/our-program-officers>.

e. Full Proposals Requirements: See Appendix 1 for Instructions for Grants and Cooperative Agreements and Appendix 2 for instructions for Contracts and Other Transaction Agreements.

3. Unique Entity Identifier (UEI) and System for Award Management (SAM) - All offerors submitting proposals or applications must:

- a. Be registered in the SAM prior to submission;
- b. Provide a valid unique entity identifier in its application; and
- c. Maintain an active SAM registration with current information at all times during which it has an active Federal award or an application or proposal under consideration by a Federal awarding agency;

SAM may be accessed at <https://sam.gov/content/home>

A Federal awarding agency may not make a Federal award to an applicant/offeror until the applicant has complied with all applicable unique entity identifier and SAM requirements and, if an applicant/offeror has not fully complied with the requirements by the time the Federal awarding agency is ready to make a Federal award, the Federal awarding agency may determine that the applicant/offeror is not qualified to receive a Federal award and use that determination as a basis for making a Federal award to another applicant/offeror.

4. Submission Dates and Times - See Section A.6 above, "Key Dates" for information.

5. **Intergovernmental Review:** RESERVED.

6. **Funding Restrictions:** RESERVED.

7. **Other Submission Requirements:** See Appendix 1 for Instructions for Grants and Cooperative Agreements and Appendix 2 for instructions for Contracts and Other Transaction Agreements.

E. Application Review Information

1. **Criteria.** Awards under this BAA will be made in accordance with FAR 35.016(e). The primary basis for selecting proposals for acceptance will be technical merit, importance to agency programs, and funds availability. To the extent appropriate, cost realism and reasonableness will also be considered when selecting proposals. ONR reserves the right to request and require any additional information and documentation after it makes the type of award instrument determination. ONR reserves the right to remove Offerors from award consideration when the parties fail to reach agreement on award terms, conditions, and cost/price within a reasonable time, or when the Offeror fails to timely provide requested or required additional information.

Offeror's white papers and full proposals will be evaluated against the following criteria:

1) Overall scientific and technical merits of the proposal and responsiveness to the topic, i.e., the degree of innovation, soundness of technical concept, Offeror's awareness of the state of the art and understanding of the scope of the problem, significance and originality of the technical approach and effort needed to address/solve the problem, and anticipated scientific impact within the field. The following areas will also be considered: (A) the Offeror's capabilities, related experience, facilities, techniques or unique combinations of these that are integral factors for achieving the proposal objectives, and (B) the qualifications, capabilities and experience of the proposed Principal Investigator (PI), team leader and key personnel who are critical to achieving the proposal objectives.

2). Potential Naval relevance and contribution to the ONR and Department of Navy mission. As part of the Naval relevance criteria, in accordance with the National Defense Authorization Act (NDAA) for FY 2019, Section 1286, as amended by Section 1299C of the NDAA for 2021, ONR will consider the protection of intellectual property, controlled information, key personnel, and information about critical technologies relevant to national security and limit undue influence, including foreign talent programs by countries that desire to exploit United States' technology within the DoD research, science and technology, and innovation enterprise. Consideration will be given to improper technology transfer, intellectual property theft, or cyber or human espionage, entities known to recruit foreign individuals for the purpose of transferring knowledge, provide misleading information or attempt to conceal the connections of an individual or institution or pose a serious risk of improper technology transfer of data, technology, or research that is not published or publicly available.

3) The availability of funds. (*Not applicable to white papers.*) In addition, per NDAA 2021 Section 1062, beginning October 1, 2023, DoD may not fund institutions of higher education (as defined by 20 U.S.C. 1002) that host a Confucius Institute, other than amounts provided directly to students as education assistance, unless a waiver is provided. A Confucius Institute is defined as a cultural institute directly or indirectly funded by the Government of the People's Republic of China.

Criteria 1, 2, and 3 are equally important.

2. Review and Selection Process

a. Evaluation

Proposals will not be evaluated against each other since they are not submitted in accordance with a common work statement. ONR's intent is to review all proposals received as soon as possible after they arrive; however, proposals may be reviewed periodically for administrative reasons.

The ultimate recommendation for award of proposals is made by ONR's scientific/technical community. Recommended proposals will then be forwarded to the ONR Contracts and Grant Awards Management office. Any notification received from ONR that indicates that the Offeror's full proposal has been recommended does not ultimately guarantee an award will be made. This notice indicates that the proposal has been selected in accordance with the evaluation criteria stated above and has been sent to the Contracting Department to conduct cost analysis, determine the offeror's responsibility, to confirm whether funds are available, and to take other relevant steps necessary prior to making an award. When applicable, certain offerors may be required to demonstrate compliance/the ability to comply with enhanced cybersecurity requirements prior to award. Refer to Appendix 2, Section F, Federal Award Administration Information, Part 2, Administrative and National Policy Requirements, paragraph (9) of this BAA for information.

b. Commitment to Small Business- (*For Contract Awards Only*)

The Office of Naval Research is strongly committed to providing meaningful prime and subcontracting opportunities for small businesses, small disadvantaged businesses (SDBs), woman-owned small businesses (WOSBs), historically underutilized business zone (HUB Zone) small businesses, veteran-owned small business (VOSBs), service disabled veteran-owned small businesses (SDVOSBs), historically black colleges and universities, and minority institutions, and other concerns subject to socioeconomic considerations through its awards.

Businesses unfamiliar with doing business with the government and that require assistance may contact the state-specific Department of Defense (DoD) Apex Accelerator (formally known as Procurement Technical Assistance Center (PTAC)). Apex Accelerators serve as a resource for businesses pursuing and performing under contracts with DoD, other federal agencies, state and local governments and with government prime contractors. Assistance provided by the Apex

Accelerators is usually free of charge. Apex Accelerators support includes registration in systems such as SAM, identification of contract opportunities, understanding requirements and preparing and submitting proposals. The Accelerators have a presence in each state, Puerto Rico, Guam and the Northern Mariana Island.

To locate a local Apex Accelerator visit:

<https://www.apexaccelerators.us/#/>

i. Subcontracting Plan:

For proposed contract awards exceeding \$750,000, large businesses and non-profits (including educational institutions) shall provide a Subcontracting Plan (hereafter known as ‘the Plan’) that contains all elements required by FAR 19.704, FAR 52.219-9, and as supplemented by DFARS 252.219-7003.

NOTE: Small businesses are exempt from this requirement to submit a subcontracting plan.

The Plan must be submitted as an attachment to the “Proposal Checklist” and will not be included in the page count. If a company has a Master or Individual Subcontracting Plan, as described in FAR 19.701 or a Comprehensive Subcontracting Plan, as described in DFARS 219.702-70, a copy of the Plan shall also be submitted as an attachment to the “Proposal Checklist.”

Plans will be reviewed for adequacy, ensuring that the required information, goals, and assurances are included. FAR 19.702 requires an apparent successful offeror to submit an acceptable Plan. If the apparent successful offeror fails to negotiate a Plan acceptable to the contracting officer within the time limit prescribed by the contracting officer, the offeror will be ineligible for award.

Offerors shall propose a plan that ensures small businesses (inclusive of SDBs, WOSBs, HUBZone, VOSBs and SDVOSBs) will have the maximum practicable opportunity to participate in contract performance consistent with efficient performance.

Offerors shall, to the best extent possible, propose realistic goals to ensure opportunities for small business participation to the maximum extent possible. If proposed goals do not contain positive goals, or the Small Disadvantaged Business (SDB) goals are below 5%, then the offeror shall include in the Plan a viable written explanation as to why small businesses are unable to be utilized and what attempts were taken to ensure that small business were given the opportunity to participate in the effort to the maximum extent practicable.

ii. Subcontracting Resources:

Subcontracting to a prime contractor can be a good way to participate in the contracting process. The following is a list of potential resources that may assist in locating potential subcontracting partners/opportunities/resources:

- Dynamic Small Business Search (DSBS) (http://web.sba.gov/pro-net/search/dsp_dsbs.cfm)
- Contracting Opportunities in <https://www.sam.gov/content/opportunities>
- Navy SBIR/STTR Search – Website or Brochure (<https://www.navysbir.com>)
- U.S. Small Business Administration Subcontracting Network (Subnet) (https://subnet.sba.gov/client/dsp_Landing.cfm)
- Directory of federal government prime contractors with subcontracting plans @ <https://www.sba.gov/document/support-directory-federal-government-prime-contractors-subcontracting-plans>
- USAspending.gov @ <https://www.usaspending.gov/>
- DAU Small Business Community of Practice (SB COP) (<https://www.dau.edu/cop>)
- DefenseLink ≥ \$7.5 M Award Notices (<https://www.defense.gov/Newsroom/Contracts/>)

In accordance with FAR 5.206, the following entities may transmit a notice to the Government wide Point of Entry (GPE) at <https://sam.gov/content/home> to seek competition for subcontracts, to increase participation by qualified small businesses, VOSBs, SDVOSBs, HUBZones, SDBs, and WOSBs, and to meet established subcontracting plan goal as follows:

(1) A contractor awarded a contract exceeding the simplified acquisition threshold that is likely to result in the award of any subcontracts;

(2) A subcontractor or supplier, at any tier, under a contract exceeding the simplified acquisition threshold, which has a subcontracting opportunity exceeding \$15,000.

The notices must describe:

- (a) The business opportunity;
- (b) Any prequalification requirements; and
- (c) Where to obtain technical data needed to respond to the requirement.

iii. Facilitating Subcontracting Arrangements -

While large businesses and non-profits are responsible for making these subcontracting arrangements, ONR will help facilitate prime contractor/small business contracting connections by posting to the ONR external website contact information of small businesses that have indicated their subcontracting interests and technological niche for prime contractor consideration for this program. This is not an endorsement, but an effort by ONR to help bring these parties together to provide superior solutions.

If you are a small business, and your company is interested in subcontracting activities with large businesses and/or non-profits considering your technology for this program, please provide the following information by email, to the ONR Small Business Director at ONR.SmallBiz@us.navy.mil with the subject line, “N0001424SB001.” Provide this information:

- 1) Company Name and Website
- 2) Individual (POC) name and POC email address
- 3) Business Size and socio-economic category
- 4) Brief Technology Description (no more than three sentences without marketing information)
- 5) Technology Key Words (no more than 10 words)

Note: Do not include ANY proprietary information. This information will be posted on the ONR website under this BAA call and will be available to the public.

c. Options - The Government will evaluate options for award purposes by adding the total cost for all options to the total cost for the basic requirement. Evaluation of options will not obligate the Government to exercise the options during contract or grant performance. The Government reserves the right to exercise options at time of award.

d. Evaluation Panel – White Papers and technical and cost proposals submitted under this BAA will be protected from unauthorized disclosure in accordance with FAR 3.104-4 and 15.207. The cognizant Program Officer and other Government scientific experts will perform the evaluation of white papers and technical proposals. Restrictive notices notwithstanding, one or more support contractors may be utilized for administrative purposes or as subject-matter-expert technical consultants. However, selection and award decisions are solely the responsibility of Government personnel. Each support contractor's employee having access to white papers and technical and cost proposals submitted in response to this BAA will be required to sign the ONR Non-Disclosure Agreement (NDA) for Contractor Support prior to receipt of any submissions. This NDA includes third-party beneficiary language giving the submitter of proprietary information a right of direct action against the contractor employee and/or his/her employer in the event that the NDA is violated.

3. **Recipient Qualifications**

See Appendix 1 for Instructions for Grants and Cooperative Agreements and Appendix 2 for instructions for Contracts and Other Transaction Agreements.

F. Federal Award Administration Information

1. **Federal Award Notices**

All applicants will receive a notification email advising if their proposal has been selected or not selected for recommendation for award.

Applicants whose proposals are recommended for award may be contacted by a Contract or Grant specialist to discuss additional information required for award. This

may include representations and certifications, revised budgets or budget explanations, certificate of current cost or pricing data, subcontracting plan for small businesses, and/or other information as applicable to the proposed award.

The notification e-mail must not be regarded as an authorization to commit or expend funds. The Government is not obligated to provide any funding until a Government Contracting Officer, Agreements Officer or Grants Officer, as applicable, signs the award document.

Only an award document signed by the Contracting Officer, Agreements Officer or Grants Officer is the official go-ahead to commence the research project.

Office of Naval Research (ONR) award/modification documents are only available via the Department of Defense (DoD) Electronic Document Access System (EDA) within the Procurement Integrated Enterprise Environment (PIEE) (<https://piee.eb.mil>)

2. Administrative and National Policy Requirements

a. Applicable to All Awards

i. Export Control:

Offerors are responsible for ensuring compliance with all U.S. export control laws and regulations, including the International Traffic in Arms Regulation (ITAR)(22 CFR Parts 120 - 130) and Export Administration Regulation (EAR) (15 CFR Parts 730 – 774), as applicable. In some cases, developmental items funded by the Department of Defense are now included on the United States Munition List (USML) (22 CFR Part 121) and are therefore subject to ITAR jurisdiction. In other cases, items that were previously included on the USML have been moved to the EAR Commerce Control List (CCL). Offerors should address in their proposals whether ITAR or EAR restrictions apply to the work they are proposing to perform for ONR. The ITAR and EAR are available online at <http://www.ecfr.gov/cgi-bin/ECFR?page=browse>. Additional information regarding the President's Export Control Reform Initiative can be found at <https://www.export.gov/article2?id=Export-Control-Reform-ECR>

Offerors must comply with all U.S. export control laws and regulations, including the ITAR and EAR, in the performance of any award or agreement resulting from this BAA. Offerors shall be responsible for obtaining any required licenses or other approvals, or license exemptions or exceptions if applicable, for exports of hardware, technical data, and software (including deemed exports), or for the provision of technical assistance.

ii. 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. If access to classified material will be required at any point during performance, the Offeror must clearly identify such need in Section II, Block 11 of the Proposal Checklist. The Proposal Checklist can be found at the following link:

<https://www.nre.navy.mil/work-with-us/how-to-apply/submit-contract-proposal>

If it is determined that access to classified information will be required during the performance of an award, a Department of Defense (DD) Form 254 will be attached to the award, and FAR 52.204-2 - Security Requirements will be incorporated into the contract.

ONR does not provide access to classified material under grants or cooperative agreements.

iii. Requirements Concerning Live Organisms:

(1) Use of Animals:

The DoD policies and requirements for the use of animals in DoD-supported research are described in the current version of DoD Instruction 3216.01, Use of Animals in DoD Conducted and Supported Research and Training and its implementing instruction, DHA-MSR 6025.02, "The Care And Use Of Animals In DoD Research, Development, Test, And Evaluation (RDT&E) Or Training Programs," the version of which is current at the time of award. If animals are to be utilized in the research effort proposed, the Offeror must submit a Full Appendix or Abbreviated Appendix (see Guidance link below) with supporting documentation (such as copies of Institutional Animal Care and Use Committee (IACUC) Approval, IACUC Approved Protocol, and most recent United States Department of Agriculture (USDA) Inspection Report) prior to award. For assistance with submission of animal research related documentation, contact the ONR Animal Use Administrator at (703) 696-4318 or Suzanne.b.may.civ@us.navy.mil. Guidance: <https://www.nre.navy.mil/work-with-us/how-to-apply/compliance-and-protections/research-protections/animal-use>

(2) Use of Human Subjects in Research:

(a) Offerors must protect the rights and welfare of individuals who participate as human subjects in research awarded pursuant to this BAA and must comply with the requirements of the Common Rule at 32 CFR part 219 (the DOD implementation of 45 CFR part 46) and applicable provisions of DoD Instruction 3216.02, Protection of Human Subjects and Adherence to Ethical Standards in DoD-Conducted and -Supported Research, Change 1, (June 29, 2022), the DON implementation of the human research protection program contained in SECNAVINST 3900.39E Change 1, (or its replacement), 10 USC 980 "Limitation on Use of Humans as Experimental Subjects," and when applicable, Food and Drug Administration (FDA) and other federal and state law and regulations.

(b) For proposals containing activities that include or may include research involving human subjects as defined in DoDI 3216.02, prior to award, the Offeror must submit the following documentation :

(i) Approval from an Institutional Review Board (IRB) (IRB-approved research protocol, IRB- approved informed consent document, documentation showing the IRB considered the scientific merit of the research, and other material considered by the IRB

and the IRB registration number); proof of completed human research training (e.g., training certificate for the principal investigator, and institutional verification that the principal investigator, co-investigators and research support personnel have received appropriate training to be considered qualified to execute the research); and the Offeror's Department of Health and Human Services (DHHS)-issued Federal Wide Assurance (FWA#), including notifications of any FWA suspensions or terminations.

(ii) Any claimed exemption under 32 CFR 219.104, including the category of exemption, supporting documentation considered by the Offeror's institution in making the determination (e.g., protocol, data collection tools, advertisements, etc.). The documentation shall include a short rationale supporting the exemption determination. This documentation should be signed by the IRB Chair or IRB vice Chair, designated IRB administrator or official of the Offeror's human research protection program.

(iii) Any determinations that the proposal does not contain activities that constitute research involving human subjects or contains only activities that are deemed not to be research under 32 CFR 219.102(l), including supporting documentation considered by the Offeror's institution in making the determination. This documentation should be issued by the IRB Chair or IRB vice Chair, designated IRB administrator or official of the Offeror's human research protection program.

(c) Documentation must be submitted to the ONR Human Research Protection Official (HRPO), by way of the ONR Program Officer. The HRPO retains final judgment on whether the documentation satisfies the use of human subjects in research requirements. For assistance with submission of human subject research related documentation, contact the ONR HRPO at (703) 696-4318 or Suzanne.b.may.civ@us.navy.mil.

Contracts, orders, or grant awards and any subawards or modifications will include a statement indicating successful completion of the HRPO review. Research involving human subjects must not be commenced under any contract award or modification or any subcontract or grant subaward or modification until awardee receives notification from the Contracting or Grants Officer that the HRPO has approved the assurance as appropriate for the research under the award or modification and that the HRPO has reviewed the protocol and accepted the IRB approval or determination for compliance with Federal, DoD and DON research protection requirements. The Government will not reimburse or otherwise pay for work performed in violation of this requirement. See, DFARS 252.235-7004. Guidance: <https://www.nre.navy.mil/work-with-us/how-to-apply/compliance-and-protections/research-protections/human-subject-research>

iv. Biosafety and Biosecurity Requirements

Offerors must comply with applicable provisions of the current version of DODM 6055.18, Safety Standards for Microbiological and Biomedical Laboratories, including ensuring compliance with standards meeting at least the minimum applicable requirements of the current edition of Centers for Disease Control and Prevention, "Biosafety in Microbiological and Biomedical Laboratories (BMBL)," and National Institutes of Health,

“The NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines)” and any applicable FDA requirements.

v. Research Involving Recombinant (rDNA) or Synthetic Nucleic Acid Molecules

Offerors must not begin performance of research within the scope of “The NIH Guidelines for Research Involving Recombinant or Synthetic Nucleic Acid Molecules (NIH Guidelines)” until receiving notice from the Contracting or Grants Officer that ONR has reviewed and accepted the Offeror’s documentation. In order for ONR to accomplish that review, an offeror must provide the Contracting or Grants Officer, generally as part of an original proposal prior to award, sufficient documentation to enable the review, including:

- (a) A written statement that the Offeror is in compliance with NIH Guidelines or applicable FDA requirements. This statement should be made by an official of the institution other than the Principal Investigator and should be on university or company letterhead.
- (b) Evidence demonstrating that the proposed research protocol has been approved (or determined exempt from the NIH Guidelines) by an Institutional Biosafety Committee (IBC); and a copy of the Department of Health and Human Services (DHHS) Letter of Approval of the IBC, or the most recent letter from DHHS stating the IBC is in compliance with the NIH Guidelines. For assistance with requirements involving countries outside the United States, please contact the ONR HRPO at (703) 696-4318 or Suzanne.b.may.civ@us.navy.mil.

vi. Institutional Dual Use Research of Concern

As of September 24, 2015, all institutions and United States Government (USG) funding agencies subject to [the United States Government Policy for Institutional Oversight of Life Sciences Dual Use Research of Concern](#) must comply with all the requirements listed therein. If your research proposal directly involves certain biological agents or toxins, contact the cognizant Technical Point of Contact. U.S. Government Science, Safety, Security (S3) guidance may be found at <https://www.phe.gov/s3/dualuse/Pages/default.aspx>

vii. Department of Defense High Performance Computing Program

The DoD High Performance Computing Program (HPCMP) furnishes the DoD S&T and RDT&E communities with use-access to very powerful high performance computing systems. Awardees of ONR contracts, grants, and other assistance instruments may be eligible to use HPCMP assets in support of their funded activities if ONR Program Officer approval is obtained and if security/screening requirements are favorably completed. Additional information may be found at <https://www.hpc.mil/>.

viii. Project Review Meetings and Program Review Meetings

Individual Project Review Meetings between the ONR sponsor and the performer may be held as necessary. Project Review Meetings typically last approximately one day. Typically, there are two in-person Project Review Meetings each year. Additional Project Review Meetings are likely, but these will be accomplished by video telephone conferences, telephone conferences, or web-based collaboration tools.

In addition to Project Review Meetings, Program Review Meetings may be held to provide a forum for reviews of the latest results from individual project experiments and any other incremental project progress towards major demonstrations. Program Review Meetings are generally held once per year and last two to three days.

For cost estimating purposes, offerors should assume that 40% of the review meetings will be at or near ONR, Arlington VA, and 60% would be held at other government or non-government facilities within the continental United States.

The Government sometimes finds it advantageous to hold Program Review Meetings at a performer's facility. Offerors interested in hosting such meetings should include an estimated cost and the following language in their proposals, which become part of any award (note: if a contract is awarded, use of the facility will be included as an option):

[Name of entity] offers the use of its facilities for an ONR Program Review Meeting to discuss the status of programs related to the subject of this proposal. Such meetings may include attendees representing multiple research efforts. The meetings will discuss only "contracted fundamental research" as provided in the Under Secretary of Defense (Acquisition, Technology and Logistics) Memorandum of 24 May 2010, the results of which are open to the public. No fee will be charged for attendees at Program Review Meetings. [Name of entity] understands it will not be asked to host a Performance Review Meeting more than once per year, if at all.

Offerors are not required to include the foregoing term in their proposals, and whether they do or not, will not affect their selection for award.

The foregoing does not apply to international offerors submitting proposals to ONR Global. International offerors should contact the cognizant ONR Global Science Director specializing in your field, or located in your region for guidance prior to submitting a proposal.

ix. Requirements for Operation and Procurement of Commercial Off the Shelf Unmanned Aircraft Systems

a. Commercial Off-The-Shelf Unmanned Aircraft Systems (COTS UAS) may not be purchased pursuant to this grant or assistance agreement or contract or other transaction agreement for prototype until a Cyber Exception to Policy (ETP) is obtained by the cognizant ONR Program Officer.

b. Exception. A Cyber ETP is not required when the research is supported via a grant award

AND it is unclassified and funded with either basic research funds (i.e., 6.1) or applied research funds (i.e., 6.2) and performed on campus by a university. For all other grants and assistance agreements, a Cyber ETP must be obtained prior to purchase and/or flight operations.

c. Notwithstanding b. above, a Cyber ETP is required for all efforts (regardless of award or funding type) that involve interactions with military personnel, DoD property, or DoD facilities; work conducted by US Government laboratories, UARCs, or FFRDCs; or are Public Aircraft Operation (PAO), classified, or explore specific military utility. For these efforts, and depending on the UAS platform and Cyber Operating Environment, a Cyber ETP, FAA issued Certificate of Airworthiness or a NAVAIR Airworks Authority to Operate (ATO) must be obtained.

d. Prospective or current performers are required to notify the cognizant ONR Program Officer of any anticipated COTS UAS purchase that may be subject to exception at time of white paper, proposal submission or award changes. Performers shall provide documentation specifying the details including the type of drone, effort, location, etc.

e. Performers will agree to cooperate and provide additional information as requested to support the cyber vulnerability assessment and other requirements identified above in 1.c.

f. Notwithstanding, procedures and requirements identified above, restrictions identified in Section 848 of the National Defense Authorization Act for Fiscal Year 2023, Pub. L. No. 116-92, 10 U.S.C 4871 note, as amended, continue to apply. Performers are notified that effective October 1, 2023 additional restrictions will apply to new awards, extensions or renewals of existing contracts.

3. Reporting:

See Appendix 1 for reporting requirements for Grants and Cooperative Agreements.

See Appendix 2 for reporting requirements for Contracts and Other Transactions.

G. Federal Awarding Agency Contacts

1. Communications:

a. All UNCLASSIFIED communications shall be submitted via e-mail to the Technical Point of Contract (POC) with a copy to the designated Business POC, as designated below.

b. CLASSIFIED questions shall be handled through the ONR Security POC. Specifically, any entity wanting to ask a CLASSIFIED question shall send an UNCLASSIFIED email to the ONR Security POC with a copy to both the Technical POC and the Business POC stating that the entity would like to ask a CLASSIFIED question. DO NOT EMAIL ANY CLASSIFIED QUESTIONS. The Security POC will contact the entity and arrange for the CLASSIFIED question to be asked through a secure method of communication.

2. **Questions of a Technical nature**

Point of Contact Name: Drs. William Mullins and Jeff Farren
Point of Contact Occupation Title: Program Officer
Division Title: Naval Materials Division
Division Code: 332

One Liberty Center
875 N. Randolph Street
Arlington, VA 22203-1995
Email Addresses: jeffrey.d.farren.civ@us.navy.mil and
william.m.mullins.civ@us.navy.mil

3. **Questions of a Business nature, regarding Contract proposal submissions, or suggestions for improvement**, should be submitted to:

Leila Hemenway, Contracting Officer
Office of Naval Research
ONR Code 251

One Liberty Center
875 N. Randolph Street
Arlington, VA 22203-1995
Email Address: leila.k.hemenway.civ@us.navy.mil

4. **Questions regarding Grants proposal submissions** should be submitted to:

Veronica Lacey, Grants Officer
Office of Naval Research
ONR Code 253

One Liberty Center
875 N. Randolph Street
Arlington, VA 22203-1995
Email Address: veronica.y.lacey.civ@us.navy.mil

5. **Questions of a Security nature** should be submitted to:

Industrial Security Specialist
Office of Naval Research
Security Department, Code 54

One Liberty Center
875 North Randolph St.
Arlington, VA 22203-1995
Email Address: ONR.NCR.BD043.list.Security-Division@us.navy.mil
Attn: Ms. Yezabeth Cuevas

H. Other Information - RESERVED

III. APPENDICES

APPENDIX 1 – REQUIREMENTS APPLICABLE TO GRANTS AND COOPERATIVE AGREEMENTS ONLY

D. Application and Submission Information - Full Grant Proposals

2. Content and Format of Application Submission

(e). Full Proposals:

Prospective offerors must complete the mandatory forms in accordance with the instructions provided on the forms and the additional instructions below. Files that are attached to the forms must be in Adobe Portable Document Format (.PDF); must not contain macros, and must not be password protected. If an attachment is not in .PDF, contains macros or is password protected, the attachment will not pass ONR's automated acceptance check and will be rejected by the system. A resubmission must be marked "New" in block 2, "Type of Application" of the SF 424.

Full Proposal Format

- Spacing – single spaced
- Font – Times New Roman, not smaller than 12 point
- Discuss the limit on the number of pages for the Technical Proposal with the cognizant Program Officer. There are no page limitations to the Budget.

NOTE: The electronic file name for all documents submitted under this BAA must not exceed 68 characters in length, including the file name extension.

Mandatory SF-424 Research and Related (R&R) Family Forms

The mandatory forms are found at <https://www.grants.gov/forms>

(1) SF-424 (R& R)

The SF-424 (R&R) form must be used as the cover page for all proposals. Complete all required fields in accordance with the "pop-up" instructions on the form and the following instructions for specific fields. Please complete the SF-424 first, as some fields on the SF-424 are used to auto-populate fields on other forms. Guidance can be found at <https://www.grants.gov/forms/forms-repository/r-r-family>

The completion of most fields is self-explanatory, with the exception of the following special instructions:

- Field 3 - Date Received by State: Leave Blank
- Field 4a - Federal Identifier: For new proposals, enter N00014. If the application is renewal or expansion of an existing award, enter the ONR award number.

- Field 4b - Agency Routing Number: Enter the three (3) digit Program Office Code (332) and the Program Officer's name, last name first, in brackets ([Farren, Jeffrey]). Note: There is a space between the code and the first bracket and between the comma and the First Name. There is no space between the first bracket and the last name.

Applicants who fail to provide a Program Officer Code identifier may receive a notice that their proposal is rejected.

- Field 4c - Previous Grants.gov Tracking ID: If this submission is for a Changed/Corrected Application, enter the Grants.gov tracking number of the previous proposal submission; otherwise, leave blank.
- Field 5 – Application Information: Email address entered by the grantee on the SF424 application to create the EDA notification profile. ONR recommends that organizations provide a global business address.
- Field 7 - Type of Applicant. Complete as indicated: If the organization is a Minority Institution, select “Other” and under “Other (Specify)” note that the institution is a Minority Institution (MI).
- Field 9 - Name of Federal Agency: List the Office of Naval Research as the reviewing agency. This field is pre-populated in Grants.gov.
- Field 11 – Descriptive Title of Applicant's Project: Include the ONR White Paper Tracking Number provided to the applicant by ONR, if applicable.
- Field 14 – Project Director/Principal Investigator: Email address entered by the grantee on the SF424 application to create the EDA notification profile
- Field 16 - Is Application Subject to Review by State Executive Order 12372 Process? Choose “No.” Check “Program is Not Covered by Executive Order 12372.”

Field 17 – Certification: All awards require some form of certifications of compliance with national policy requirements. By checking “I Agree” on the SF 424 (R&R) block 17, you agree to abide by the following statement: “By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. code, Title 18, Section 1001). In addition, the Financial Assistance General Certifications and Representations must be completed in SAM.gov (<https://sam.gov/content/home>).

- Field 19 – Authorized Representative: Email address entered by the grantee on the SF424 application to create the EDA notification profile. This must be the same person who

signs the SF424. If for some reason the authorized representative is unable to sign the SF424, a letter of authorization signed by the authorized representative must be submitted with the SF424 application.

(2) PROJECT/ABSTRACT

The project summary/abstract must identify the research problem and objectives, technical approaches, anticipated outcome of the research if successful, and impact on DoD capabilities. Use only characters available on a standard QWERTY keyboard. Spell out all Greek letters, other non-English letters, and symbols. Graphics are not allowed and there is a one page or 4,000-character (including spaces) limit, whichever is less.

Do not include proprietary or confidential information. The project summary/ abstract must be marked by the applicant as “Approved for Public Release.” Abstracts of all funded research projects will be posted on the public DTIC website: <https://discover.dtic.mil/products-services/>

(3) RESEARCH AND RELATED OTHER PROJECT INFORMATION

- Fields 1 and 1a - Human Subject Use: Each proposal must address human subject involvement in the research by completing Fields 1 and 1a of the R&R Other Project Information form. For proposals containing activities that include or may include “research involving human subjects” as defined in DoDI 3216.02, prior to award, **the Applicant must submit the required documentation under “Use of Human Subjects in Research” (Section F).**

- Fields 2 and 2a – Vertebrae Animal Use: Each proposal must address animal use protocols by addressing Fields 2 and 2a of the R&R Other Project Information form. If animals are to be utilized in the research effort proposed, **the Applicant must submit the documents described under “Use of Animals” (Section F).**

- Fields 4a through 4d - Environmental Compliance: Address these fields and briefly indicate whether the intended research will result in environmental impacts outside the laboratory, and how the applicant will ensure compliance with environmental statutes and regulations.

Federal agencies making grant or cooperative agreement awards and recipients of such awards must comply with all applicable environmental planning and regulatory compliance requirements. The National Environmental Policy Act of 1969 (NEPA), 42 U.S.C. § 4321 *et seq.*, for example, requires that agencies consider the environmental impact of “major Federal actions” prior to any final agency decision. With respect to those awards that constitute “major Federal actions,” as defined in 40 C.F.R 1508.1(q), federal agencies may be required to comply with NEPA and prepare environmental planning documentation such as an environmental impact statement (EIS), even if the agency does no more than provide grant funds to the recipient. Most field research funded by ONR, however, constitute activities covered by a NEPA categorical exclusion that do not require preparation of further environmental planning documentation. This is particularly true with regard to basic and

applied scientific research conducted entirely within the confines of a laboratory, if the research complies with all other applicable safety, environmental and natural resource conservation laws. Questions regarding NEPA or other environmental planning or regulatory compliance issues should be referred to the technical point of contact.

- Field 7 – Project Summary/Abstract: Leave Field 7 blank; complete Form SF424, Project Abstract. If an error message occurs when leaving Block 7 blank, upload the Project Abstract.
- Field 8 – Project Narrative: Describe clearly the research, including the objective and approach to be performed, keeping in mind the evaluation criteria. Attach the entire proposal narrative to R&R Other Project Information form in Field 8. To attach a Project Narrative in Field 8 click on “Add Attachment” and attach the technical proposal as a single PDF file. (Save the file as “Technical Proposal,” as typing in the box is prohibited). The technical proposal must describe the research in sections as described below:

Cover Page: This must include the words “Technical Proposal” and the following:

- (a) BAA Number: N0001424SB002;
- (b) Title of Proposal;
- (c) Identity of prime Offeror and complete list of subawards, if applicable;
- (d) Technical contact (name, address, phone/fax, electronic mail address)
- (e) Administrative/business contact (name, address, phone/fax, electronic mail address) and;
- (f) Proposed period of performance (identify both the base period and any options, if included).

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

Technical Approach: Describe the scientific or technical concepts that will be investigated, providing the complete research plan. Describe what is innovative about the proposed approach. Describe the proposed approach compared to alternate approaches other researchers in this field have taken. Given a successful completion, describe the results, new knowledge, or insights.

➤ **Future Naval Relevance:** A description of potential Naval relevance and contributions of the effort to the agency’s specific mission.

➤ **Project Schedule and Milestones:** A summary of the schedule of events and milestones:

➤ Reports: The following are sample reports that are typically required under a research effort:

- Technical and Financial Progress Reports
- Final Report

Grants do not include the delivery of software, prototypes, and other hardware deliverables.

Management Approach: Describe the overall management approach and provide rationale for participation of key team members. Describe the planned relationships with any subawardees or collaborators. This is a single PI award; if there are subawardees or collaborators, explain how the proposed team fits the single PI structure. If appropriate, briefly describe anticipated schedule.

Principal Investigator Qualifications: A discussion of the qualifications of the proposed Principal Investigator and any other key personnel.

Responsibility: Offerors must provide the following information to ONR in order to assist in ONR's evaluation of the offeror's responsibility:

- Describe how you have adequate resources or the ability to obtain such resources as required to complete the activities proposed.
- Describe how you have the ability to comply with the grant conditions, taking into account all existing and currently prospective commitments of the applicant, nongovernmental and governmental.
- Describe your performance history; specifically, your record in managing Federal awards and the extent to which any previously awarded amounts will be expended prior to future awards.
- Describe your record of integrity and business ethics.
- Describe qualifications and eligibility to receive an award under applicable laws and regulations.
- Describe your organization, experience, accounting, and operational controls and technical skills or the ability to obtain them (including as appropriate such elements as property control systems, quality assurance measures, and safety programs applicable to the efforts to be performed).

- **Data Management Plan:**

- A data management plan is a document that describes which data generated through the course of the proposed research will be shared and preserved, how it will be done, or explains why data sharing or preservation is not possible or scientifically appropriate, or why the costs of sharing or preservation are incommensurate with the value of doing so. See also: DoD Instruction 3200.12.

- In no more than 2 pages, discuss the following:

- The types of data, software, and other materials to be produced.
- How the data will be acquired.
- Time and location of data acquisition, if scientifically pertinent.
- How the data will be processed.
- The file formats and the naming conventions that will be used.
- A description of the quality assurance and quality control measures during collection, analysis, and processing.
- A description of dataset origin when existing data resources are used.
- A description of the standards to be used for data and metadata format and content.
- Appropriate timeframe for preservation.
- The plan may consider the balance between the relative value of data preservation and other factors such as the associated cost and administrative burden. The plan will provide a justification for such decisions.
- A statement that the data cannot be made available to the public when there are national security or controlled unclassified information concerns (e.g., “This data cannot be cleared for public release in accordance with the requirements in DoD Instruction 5230.09.”)(DoD Instruction 5230.09 can be found at:
<https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodi/523009p.pdf?ver=nuEwULZ-197fNysiam2Mnw%3d%3d>)

- **Field 9 – Bibliography & Referenced Cited:** Upload your Bibliography/Referenced cited as a single PDF.
- **Field 10 – Facilities & Other Resources:** Describe facilities available for performing the proposed research and any additional facilities the applicant proposes to acquire at its own expense. Indicate government-owned facilities already possessed that will be used. (Additional equipment will not be provided unless the research cannot be completed by any other practical means.)
- **Field 11 – Equipment:** Describe any equipment available or any additional equipment the application proposes to acquire at its own expense. Indicate government owned equipment that will be used. Justify the need for each equipment item and provide vendor quotes. (Additional equipment will not be provided unless the research cannot be completed by any other practical means.)

(4) **RESEARCH & RELATED BUDGET**

The offeror must use the Grants.gov forms (including the Standard Form (SF) Research and Related (R&R) Budget Form) from the application package template associated with the BAA on the Grants.gov web site located at <https://www.grants.gov/> . If options are proposed, the cost proposal must provide the pricing information for the option periods; failure to include the proposed costs for the option periods will result in the options not being included in the award.

A separate Adobe .pdf document shall be included in the application that provides appropriate justification and/or supporting documentation for each element of cost proposed and include a link to the current single audit report. This document shall be attached under Section K. “Budget Justification” of the Research and Related Budget form. Click “Add Attachment” to attach.

(a) Part 1: The itemized budget shall include the following. All costs shall be rounded to the nearest dollar.

- **Direct Labor** – Individual labor categories or persons, with associated labor hours and unburdened direct labor rates. Provide escalation rates for out years.
- **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 that adequately describes the major project and the administrative and/or clerical work to be performed.
- **Fringe Benefits and Indirect Costs** (Facilities and Administration (F&A), Overhead, G&A, etc.) – The proposal shall show the rates and calculation of the costs for each rate category. If the rates have been approved/negotiated by a Government agency, provide a copy of the memorandum/agreement. If the non-Federal entity has never received a negotiated indirect cost rate, they may elect to charge a *de minimis* rate of 10% of modified total direct costs or provide sufficient detail to enable a determination of allowability, allocability and reasonableness of the allocation bases, and how the rates are calculated. See 2 CFR 200.414(f) regarding the use of a *de minimis* rate. Additional information may be requested, if needed. If composite rates are used, provide the calculations used in deriving the composite rates.

Travel – The proposed travel cost must 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 must be justified based on the organizations historical average cost per trip or other reasonable basis for estimation. Such estimates and the resultant costs claimed must conform to the applicable Federal cost principles. Offerors may include travel costs for the Principal Investigator to attend the peer reviews described in Section II of this BAA. A sample Travel Estimate Spreadsheet with the required information is located at the following link: <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-grant-application>

- Subawards/Subcontracts – Provide a description of the work to be performed by the subrecipient/subcontractor. For each subaward, a detailed cost proposal is required to be submitted by the subrecipient(s) using the **R&R budget form** and the same requirements for the individual categories identified in this section apply to the subaward/subcontract. Include subrecipient(s) name at the top of the budget justification document. A proposal and any supporting documentation must be received and reviewed before the Government can complete its cost analysis of the proposal and enter negotiations. ONR's preferred method of receiving subcontract information is for this information to be included with the Prime's proposal. However, a subcontractor's cost proposal can be provided in a sealed envelope with the recipient's cost proposal or via e-mail directly to the Program Officer at the same time the prime proposal is submitted. The e-mail shall identify the proposal title, the prime Offeror and that the attached proposal is a subcontract.

- Consultants – Provide a breakdown of the consultant's hours, the hourly rate proposed, any other proposed consultant costs, a copy of the signed Consulting Agreement or other documentation supporting the proposed consultant rate/cost, and a copy of the consultant's proposed statement of work if it is not already separately identified in the prime contractor's proposal.

- Materials & Supplies – Provide an itemized list of all proposed materials and supplies including quantities, unit prices, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).

- 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 for the estimate (e.g., quotes, prior purchases, catalog price lists). Allowable items normally are 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, laptops, office equipment) 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 proposed other direct costs such as Graduate Assistant tuition, laboratory fees, report and publication costs, and the basis for the estimate (e.g., quotes, prior purchases, catalog price lists).

NOTE: *If the grant proposal requests funds for hosting or attending a conference, workshop or symposium:*

1. ONR (including ONRG) will not sponsor an ONR, Navy, or DoD event. Provide a list of other sponsors and the requested amounts to be funded by all sponsors.

2. The funds provided by ONR (including ONRG) generally may not be used to pay for food or beverages as a direct cost except in exceptional circumstances. The funds shall not

be used for food or beverages unless:

- a. The grant proposal contains a request for such funding that is fully supported factually in accordance with the cost principles of the relevant OMB Circular, and*
- b. The Grants Officer determines that the funding is a reasonable, allocable, allowable expense under the relevant cost principles.*

3. Specify in your proposal how the event and related outcomes will directly and programmatically relate to the STAMP program. The proposal must provide the technical and scientific objectives of the program or event and clearly state the desired outcomes (e.g. conference proceedings, journal articles, algorithms, tools, additional research).

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

(5) RESEARCH AND RELATED SENIOR/KEY PERSON PROFILE (EXPANDED)

To evaluate compliance with Title IX of the Education Amendments of 1972 (20 U.S.C. A§ 1681 Et. Seq.), the Department of Defense is collecting certain demographic and career information to be able to assess the success rates of women who are proposed for key roles in applications in STEM disciplines. I

The R&R Senior/Key Person Profile (Expanded) form will be used to collect the following information for all senior/key personnel, including Project Director/Principal Investigator and Co-Project Director/Co-Principal Investigator, whether or not the individuals' efforts under the project are to be funded by the DoD:

- Degree Type and Degree Year fields as the source for career information.
- Current and Pending Support shall include a list of all current projects the individual is working on, in addition to any future support the individual has applied to receive, regardless of the source. Upload this document by clicking “Add Attachment.” The following information shall be included for each current or pending project:
 - Title and objectives
 - The percentage per year to be devoted to the other projects
 - The total amount of support the individual is receiving in connection to each of the other research projects or will receive if the other proposals are awarded
 - Name and address of the agencies and/or other parties supporting the other research projects
 - Period of performance for the other research projects.
- Upload the biosketch/CV/resume to the Biographical Sketch field.

Additional senior/key persons can be added by selecting the “Next Person” button. Note that, although applications without these fields completed may pass Grants.gov

edit checks, if ONR receives an application without the required information, ONR may determine that the application is incomplete and may cause it to be returned without further review. DoD reserves the right to request further details from the applicant before making a final determination on funding the effort. If the bio-sketch field requires an attachment, upload the resumes.

(6) RESEARCH AND RELATED PERSONAL DATA

This form will be used by ONR as the source of demographic information, such as gender, race, ethnicity, and disability information for the Project Director/Principal Investigator and all other persons identified as Co-Project Director(s)/Co-Principal Investigator(s). Each application must include this form with the name fields of the Project Director/Principal Investigator and any Co-Project Director(s)/Co-Principal Investigator(s) completed; however, provision of the demographic information in the form is voluntary. If completing the form for multiple individuals, each Co-Director/Co-Principal Investigator can be added by selecting the “Next Person” button. The demographic information, if provided, will be used for statistical purposes only. The demographic information may be accessible to the reviewer, but will not be considered in the evaluation. Applicants who do not wish to provide some or all of the information should check or select the “Do not wish to provide” option.

7. Other Submission Requirements

Grants.gov Application Submission and Receipt Procedures

This section provides the application submission and receipt instructions for ONR program applications. Please read the following instructions carefully and completely.

1. Electronic Delivery

ONR is participating in the Grants.gov initiative to provide the grant community with a single site to find and apply for grant funding opportunities. ONR applicants shall submit their applications online through Grants.gov.

2. How to Register to Apply through Grants.gov

a. *Instructions:* Read the instructions below about registering to apply for ONR funds. Applicants should read the registration instructions carefully and prepare the information requested before beginning the registration process. Reviewing and assembling the required information before beginning the registration process will alleviate last-minute searches for required information.

Organizations must have an active System for Award Management (SAM) registration, and Grants.gov account to apply for grants. If individual applicants are eligible to apply for this funding opportunity, then you may begin with step 3, Create a Grants.gov Account, listed below.

Creating a Grants.gov account can be completed online in minutes, but SAM registrations may

take additional time. Therefore, an organization's registration should be done in sufficient time to ensure it does not impact the entity's ability to meet required application submission deadlines.

Complete organization instructions can be found on Grants.gov here:

<https://grants.gov/applicants/applicant-registration/>

1) *Register with SAM*: All organizations applying online through Grants.gov must register with the System for Award Management (SAM). Failure to register with SAM will prevent your organization from applying through Grants.gov. SAM registration must be renewed annually. For more detailed instructions for registering with SAM, refer to <https://grants.gov/applicants/applicant-registration/>

2) *Create a Grants.gov Account*: The next step is to register an account with Grants.gov. Follow the on-screen instructions or refer to the detailed instructions provided on the registration page.

3) *Add a Profile to a Grants.gov Account*: A profile in Grants.gov corresponds to a single applicant organization the user represents (i.e., an applicant) or an individual applicant. If you work for or consult with multiple organizations and have a profile for each, you may log in to one Grants.gov account to access all of your grant applications. To add an organizational profile to your Grants.gov account, enter the UEI Number for the organization in the UEI field while adding a profile. For more detailed instructions about creating a profile on Grants.gov, refer to <https://grants.gov/applicants/applicant-registration/ebiz-poc-authorizes-profile-roles>.

EBiz POC Authorized Profile Roles: After you register with Grants.gov and create an Organization Applicant Profile, the organization applicant's request for Grants.gov roles and access is sent to the EBiz POC. The EBiz POC will then log in to Grants.gov and authorize the appropriate roles, which may include the Authorized Organization Representative (AOR) role, thereby giving you permission to complete and submit applications on behalf of the organization. You will be able to submit your application online any time after you have been assigned the AOR role. For more detailed instructions about creating a profile on Grants.gov, refer to <https://grants.gov/applicants/applicant-registration/ebiz-poc-authorizes-profile-roles>

4) *Track Role Status*: To track your role request, refer to <https://grants.gov/applicants/applicant-registration/track-profile-role-status>

b. *Electronic Signature*: When applications are submitted through Grants.gov, the name of the organization applicant with the AOR role that submitted the application is inserted into the signature line of the application, serving as the electronic signature. The EBiz POC **must** authorize appropriate personnel in the system who are able to make legally binding commitments on behalf of the organization as a user with the AOR role; **this step is often missed and it is crucial for valid and timely submissions.**

3. How to Submit an Application to ONR via Grants.gov

White Papers for Grants must NOT be submitted through the Grants.gov application process. White paper for Grants submissions must be submitted through FedConnect (Section D, d, ii).

All attachments to grant applications submitted through Grants.Gov must be in Adobe Portable Document Format. Proposals with attachments submitted in word processing, spreadsheet, or any format other than Adobe Portable Document Format will not be considered for award.

Grants.gov applicants can apply online using Workspace. Workspace is a shared, online environment where members of a grant team may simultaneously access and edit different webforms within an application. For each funding opportunity announcement (FOA), you can create individual instances of a workspace.

Below is an overview of applying on Grants.gov. For access to complete instructions on how to apply for opportunities, refer to

<https://www.grants.gov/applicants/workspace-overview>

1) *Create a Workspace*: Creating a workspace allows you to complete an application online and route it through your organization for review before submitting.

2) *Complete a Workspace*: Add participants to the workspace to work on the application together, complete all the required forms online or by downloading PDF versions, and check for errors before submission. The Workspace progress bar will display the state of your application process as you apply. As you apply using Workspace, you may click the blue question mark icon near the upper-right corner of each page to access context-sensitive help.

a. *Adobe Reader*: If you decide not to apply by filling out webforms, you can download individual PDF forms in Workspace. The individual PDF forms can be downloaded and saved to your local device storage, network drive(s), or external drives, then accessed through Adobe Reader.

NOTE: Visit the Adobe Software Compatibility page on Grants.gov to download the appropriate version of the software at

<https://www.grants.gov/applicants/adobe-software-compatibility>

b. *Mandatory Fields in Forms*: In the forms, you will note fields marked with an asterisk and a different background color. These fields are mandatory fields that must be completed, to successfully submit your application.

c. *Complete SF-424 Fields First*: The forms are designed to fill in common required fields across other forms, such as the applicant name, address, and UEI Number. Once information is entered, the information will transfer to the other forms.

3) *Submit a Workspace*: An application may be submitted through workspace by clicking the Sign and Submit button on the Manage Workspace page, under the Forms tab.

Grants.gov recommends submitting your application package at least 48 hours prior to the close date to provide you with time to correct any potential technical issues that may disrupt the application submission.

4) *Track a Workspace Submission*: After successfully submitting a workspace application, a Grants.gov Tracking Number (GRANTXXXXXXXX) is automatically assigned to the application. The number will be listed on the Confirmation page that is generated after submission. Using the tracking number, access the Track My Application page under the Applicants tab or the Details tab in the submitted workspace.

For additional training resources, including video tutorials, refer to <https://www.grants.gov/applicants/applicant-training>

Applicant Support: Grants.gov provides applicants 24/7 support via the toll-free number 1-800-518-4726 and email at support@grants.gov. For questions related to the specific grant opportunity, contact the number listed in the application package of the grant for which you are applying.

If you are experiencing difficulties with your submission, it is best to call the Grants.gov Support Center and get a ticket number. The Support Center ticket number will assist ONR with tracking your issue and understanding background information on the issue.

4. Timely Receipt Requirements and Proof of Timely Submission

An electronic date/time stamp is generated within the system when the application is successfully received by Grants.gov. The applicant with the AOR role who submitted the application will receive an acknowledgement of receipt and a tracking number (GRANTXXXXXXXX) from Grants.gov with the successful transmission of their application. The applicant with the AOR role will also receive the official date/time stamp and Grants.gov Tracking number in an email serving as proof of their timely submission.

When ONR successfully retrieves the application from Grants.gov, and acknowledges the download of submissions, Grants.gov will provide an electronic acknowledgment of receipt of the application to the email address of the applicant with the AOR role who submitted the application. Again, proof of timely submission shall be the official date and time that Grants.gov receives your application. Applications received by Grants.gov after the established due date for the program will be considered late and will not be considered for funding by ONR.

Applicants using unreliable internet connections should be aware that the process of completing the Workspace can take some time. Therefore, applicants should allow enough time to prepare and submit the application before the package closing date. Grants.gov will provide either an error or a successfully received transmission in the form of an email sent to the applicant with the AOR role attempting to submit the application. The Grants.gov Support Center reports that some applicants end the transmission because they think that nothing is occurring during the transmission process. Please be patient and give the system time to process the application.

E. Application Review Information

3. Recipient Qualifications

a. *Recipient Qualifications*: The Grants Officer is responsible for determining a recipient's qualification prior to award. In general, a Grants Officer will award grant and cooperative agreements only to qualified recipients that meet the standards at 32 CFR 22.415. To be qualified, a potential recipient must:

(1) Have the management capability and adequate financial and technical resources, given those that would be made available through the grant or cooperative agreement, to execute the program of activities envisioned under the grant or cooperative agreement;

(2) Have a satisfactory record of executing such programs or activities (if a prior recipient of an award);

(3) Have a satisfactory record of integrity and business ethics; and

(4) Be otherwise qualified and eligible to receive a grant or cooperative agreement under applicable laws and regulations.

Applicants are requested to provide information with proposal submissions to assist the Grants Officer's evaluation of recipient qualification.

b. In accordance with Office of Management and Budget (OMB) guidance in parts 180 and 200 of Title 2, CFR, it is DoD policy that DoD Components must report and use integrity and performance information in the Responsibility/Qualifications section of SAM.gov concerning grant and cooperative agreements as follows:

If the total Federal share will be greater than the simplified acquisition threshold on and Federal award under a notice of funding opportunity:

(1) The Federal awarding agency, prior to making a Federal award with a total amount of Federal share greater than the simplified acquisition threshold, will review and consider any information about the applicant that is in the designated integrity and performance system accessible through SAM (see 41 U.S.C. 2313);

(2) An applicant, at its option, may review information in the designated integrity and performance systems accessible through SAM and comment on any information about itself that a Federal awarding agency previously entered and is currently in the designated integrity and performance system accessible through SAM;

(3) The Federal awarding agency will consider any comments by the applicant, in addition to the other information in the designated integrity and performance system, in making a judgment about the applicant's integrity, business ethics, and record of performance under Federal awards when completing the review of risk posed by applicants as described in 2 CFR 200.206 Federal awarding agency review of risk posed by applicants.

F. Federal Award Administration Information

2. Administrative and National Policy Requirements

i. Federal Funding Accountability and Transparency Act of 2006:

The Federal Funding Accountability and Transparency Act of 2006 (Public Law 109-282), as amended by Section 6202 of Public Law 110-252 and expanded by the Digital Accountability and Transparency Act of 2014 (Public Law 113-101), requires that all agencies establish requirements for recipients reporting information on subawards and executive total compensation as codified in 2 CFR Part 170. Any company, non-profit agency or university that applies for financial assistance (either grants or cooperative agreements) 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 Part 170 Appendix A. Entities are required to meet reporting requirements unless an exception or exemption applies. Please refer to 2 CFR Part 170, including Appendix A, for a detailed explanation of the requirements, exceptions, and exemptions.

ii. Financial Assistance Certification

The Federal Assistance Certifications Report is an attestation that the entity will abide by the requirements of the various laws and regulations and the supplemental at Section F.2.iv above. Therefore, as applicable, you are still required to submit any documentation, including the SF LLL Disclosure of Lobby Activities (if applicable), and disclosure of any unpaid delinquent tax liability or a felony conviction under any Federal law.

iii Certification regarding Restrictions on Lobbying:

Grants and cooperative agreement 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 <https://www.grants.gov> (complete Block 17). The following certification applies likewise to each cooperative agreement seeking federal assistance funds exceeding \$10,000:

(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, loans, 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 31 U.S.C. 1352. 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.

iii. Certification Regarding the Prohibition on Using Funds with Entities that Require Certain Internal Confidentiality Agreements (Grant Information Circular (GIC) 19-02 November 2019) (Supplement to SF424 (R&R), block 17, Financial Assistance Certifications and Representations)

By checking “I Agree” on the SF 424 (R&R) block 17, you agree to abide by the following statement: “By signing this application, I certify (1) to the statements contained in the list certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. code, Title 18, Section 1001).

The certification reads as follows:

By submission of its proposal or application, the applicant represents that it does not require any of its employees, contractors, or subrecipients seeking to report fraud, waste, or abuse to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting those employees, contractors, subrecipients from lawfully reporting that waste, fraud, or abuse to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information.

iv. Certification Regarding Disclosure of Funding Sources (Supplement to SF424 (R&R), block 17, Financial Assistance Certifications and Representations)

By checking “I Agree” on the SF 424 (R&R) block 17 you agree to abide by the following statement: “By signing this application, I certify the proposing entity is in compliance with Section 223(a) of the William M. (Mac) Thornberry National Defense Authorization Act for Fiscal Year 2021 which requires that: (a) the PI and other key personnel certify that the current and pending support provided on the proposal is current, accurate and complete; (b) agree to update such disclosure at the request of the agency prior to the award of support and at any subsequent time the agency determines appropriate during the term of the award; and (c) the PI and other key personnel have been made aware of the requirements under Section 223(a)(1) of this Act. I am aware that any false, fictitious, or fraudulent statements or claims

may subject me to criminal, civil, or administrative penalties. (U.S. code, Title 18, Section 1001).

v. Conflict of Interest:

Applicants for assistance are required to comply with 2 CFR 200.318(c), Codes of Conduct, to prevent real or apparent conflicts of interest in the award and administration of any contracts by which a recipient or subrecipient purchases property or services, supported by federal funds.

(1) General Requirement for Disclosure

You and your organization must disclose any potential or actual scientific or nonscientific conflict of interest(s) to us. You must also disclose any potential or actual conflict(s) of interest for any identified sub recipient you include in your application. We may have to ask you more questions if we need more information.

At our discretion, we may ask you for a conflict of interest mitigation plan after you submit your application. Your plan is subject to our approval.

(2) Scientific Conflict of Interest

Scientific collaborations on research and development projects are generally the result of close collaboration prior to the submission of applications for support. Accordingly, these collaborations should be considered when considering potential conflicts of interest. Therefore, you must include in your list of current and pending support all collaborators, even if they did not formally provide support.

vi. Peer Review

In the case of proposals funded as basic research, ONR may utilize peer reviewers from academia, industry, and Government agencies to assist in the periodic appraisal of performance under the awards, as outlined in ONR Instruction 3966.1A. Such periodic peer reviews monitor the quality of funded basic research efforts. The reviews are used in part to determine which basic research projects will receive continued ONR funding. Peer reviewers who are not U.S. Government employees must sign nondisclosure agreements before receiving full or partial copies of proposals and reports submitted by the basic research performers. Offerors may include travel costs for the Principal Investigator (PI) to attend the peer review. Peer reviews may consider information derived from individual project or program review meetings (see BAA Section F.2.a.viii for further guidance).

vii. Prohibition on certain telecommunications and video surveillance services or equipment

- (a) In accordance with 2 CFR 200.216 and 200.471, all awards that are issued on or after August 13, 2020, recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:

- (1) Procure or obtain;

(2) Extend or renew a contract to procure or obtain; or
(3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

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

(ii) Telecommunications or video surveillance services provided by such entities or using such equipment.

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

(b) In implementing the prohibition under Public Law 115-232, section 889, subsection (b), paragraph (1), heads of executive agencies administering loan, grant, or subsidy programs shall prioritize available funding and technical support to assist affected businesses, institutions and organizations as is reasonably necessary for those affected entities to transition from covered communications equipment and services, to procure replacement equipment and services, and to ensure that communications service to users and customers is sustained.

(c) See Public Law 115-232, section 889 for additional information.

COVERED FOREIGN COUNTRY means the People's Republic of China.

3. Reporting

If the Federal share of any Federal award may include more than \$500,000 over the period of performance, the post award reporting requirements, Award Term and Condition for Recipient Integrity and Performance Matters (2 CFR Part 200 Appendix XII), is applicable as follows:

A. Reporting of Matters Related to Recipient Integrity and Performance

1. General Reporting Requirement. If the total value of your currently active grants, cooperative agreements, and procurement contracts from all Federal awarding agencies exceeds \$10,000,000 for any period of time during the period of performance of this Federal award, then you as the recipient during that period of time must maintain the currency of information reported to the System for Award Management (SAM) that is made available in

the designated integrity and performance system about civil, criminal, or administrative proceedings described in paragraph 2 of this award term and condition. This is a statutory requirement under 41 U.S.C. 2313. All information posted in the designated integrity and performance system on or after April 15, 2011, except past performance reviews required for Federal procurement contracts, will be publicly available.

2. Proceedings About Which You Must Report. Submit the information required about each proceeding that:

a. Is in connection with the award or performance of a grant, cooperative agreement, or procurement contract from the Federal Government;

b. Reached its final disposition during the most recent five-year period; and

c. Is one of the following:

(i) A criminal proceeding that resulted in a conviction, as defined in paragraph 5 of this award term and condition;

(ii) A civil proceeding that resulted in a finding of fault and liability and payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more;

(iii) An administrative proceeding, as defined in paragraph 5. of this award term and condition, that resulted in a finding of fault and liability and your payment of either a monetary fine or penalty of \$5,000 or more or reimbursement, restitution, or damages in excess of \$100,000; or

(iv) Any other criminal, civil, or administrative proceeding if:

(i) It could have led to an outcome described in paragraph 2.c. (1), (2), or (3) of this award term and condition;

(ii) It had a different disposition arrived at by consent or compromise with an acknowledgment of fault on your part; and

(iii) The requirement in this award term and condition to disclose information about the proceeding does not conflict with applicable laws and regulations.

3. Reporting Procedures. Enter in the SAM Entity Management area the information that SAM requires about each proceeding described in paragraph 2 of this award term and condition. You do not need to submit the information a second time under assistance awards that you received if you already provided the information through SAM because you were required to do so under Federal procurement contracts that you were awarded.

4. Reporting Frequency. During any period of time when you are subject to the requirement in paragraph 1 of this award term and condition, you must report proceedings information through SAM for the most recent five-year period, either to report new information about any proceeding(s) that you have not reported previously or affirm that there

is no new information to report. Recipients that have Federal contract, grant, and cooperative agreement awards with a cumulative total value greater than \$10,000,000 must disclose semiannually any information about the criminal, civil, and administrative proceedings.

5. Definitions. For purposes of this award term and condition:

a. Administrative proceeding means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative proceedings, Civilian Board of Contract Appeals proceedings, and Armed Services Board of Contract Appeals proceedings). This includes proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include audits, site visits, corrective plans, or inspection of deliverables.

b. Conviction, for purposes of this award term and condition, means a judgment or conviction of a criminal offense by any court of competent jurisdiction, whether entered upon a verdict or a plea, and includes a conviction entered upon a plea of nolo contendere.

c. Total value of currently active grants, cooperative agreements, and procurement contracts includes—

(i) Only the Federal share of the funding under any Federal award with a recipient cost share or match; and

(ii) The value of all expected funding increments under a Federal award and options, even if not yet exercised.

The post award reporting requirements can be found under the relevant ONR Addendum to the DoD R&D General Terms and Conditions and ONR Programmatic Requirements located at the following link: <https://www.nre.navy.mil/work-with-us/manage-your-award/manage-grant-award/grants-terms-conditions> .

APPENDIX 2 - REQUIREMENTS APPLICABLE TO CONTRACTS AND OTHER TRANSACTION AGREEMENTS ONLY

D. Application and Submission Information

2. Content and Format of Application Submission

(e) Full Proposals:

Proposal Package:

The following documents with attachments comprise a complete proposal package:

- (1) Cover page (pdf format)
- (2) Proposal Checklist (pdf format)
- (3) Technical Proposal Template (word format)

- (4) Cost Proposal Template (Excel format) for the prime and all proposed subcontractors
- (5) DCAA Pre-award Survey of Prospective Contractor Accounting System Checklist to be submitted by contractors without an approved accounting system (pdf format)
- (6) Statement of Work (SOW) (word format)
- (7) ONR Contract Specific Representations and Certifications (pdf format)

Items 1 – 6 above are located at <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-contract-proposal> . All have instructions imbedded into them that will assist in completing the documents. In addition, both the Proposal Checklist and the Cost Proposal Template require completion of cost-related information. Please note that attachments can be incorporated into the Proposal Checklist.

For item 7, above, ONR contract specific representations and certifications are located at <https://www.nre.navy.mil/work-with-us/how-to-apply/submit-contract-proposal> .

FedConnect will not accept a proposal package unless the Cover Page is included. To ensure delivery of the proposal to the Program Officer, the Program Office's correct email address must be included.

The format requirements for attachments are as follows:

- Paper Size- 8.5 x 11-inch paper
- Margins – 1 inch
- Spacing- single or double-spaced
- Font- Times New Roman, 12 point

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 with the proposal checklist. The Government will assume unlimited rights if offerors fail to identify any intellectual property restrictions in their proposals. Include all proprietary claims to results, prototypes, and/or deliverables. If no restrictions are intended, then the offeror should state "NONE". For proposals below the simplified acquisition threshold (less than or equal to \$250K), the Technical Proposal Template and Proposal Checklist documents, and the Cost Proposal Spreadsheet are required. Purchase orders can also contain options, as long as the total amount of the base and all options does not exceed \$250K.

For proposed subcontracts or inter-organizational transfers over \$250K, Offerors must provide a **separate fully completed Cost Proposal Spreadsheet** in support of the proposed costs. This spreadsheet, along with supporting documentation, must be provided with the prime's proposal. If the subcontract information is proprietary, it can be submitted via e-mail to the Program Officer listed on the Cover Page. The e-mail should identify the proposal title, the prime Offeror and that the attached proposal is a subcontract, and should include a description of the effort to be performed by the subcontractor.

All documents except the Cost Proposal Spreadsheet and Statement of Work Template must be submitted in a secure, pdf-compatible format. The Cost Proposal Spreadsheet must be submitted in a Microsoft Excel compatible format and the Statement of Work Template must be submitted in Microsoft Word format. All attachments to any required proposal documents must be submitted in a secure, pdf-compatible format.

The secure pdf-compatible format is intended to prevent unauthorized editing of the proposal prior to any award. **A password should not be required** for opening the proposal document. Should an Offeror amend its proposal, the amended proposal should be submitted following the same guidance applicable to the original proposal.

Any proposed options that are identified in the Technical Proposal Template or Proposal Checklist document, but are not fully priced out in the Cost Proposal Spreadsheet, will not be included in any resulting contract or other transaction agreement. If proposing options, they **must** be separately priced and separate spreadsheets should be provided for the base period and each option. In addition to providing a summary by period of performance (base and any options), the Contractor is also responsible for providing a breakdown of cost for each task identified in the Statement of Work. The sum of all costs by task worksheets **MUST** equal the total cost summary.

The Excel spreadsheet should be in a “useable condition” to aid the Government with its evaluation. The term “useable condition” indicates that the spreadsheet should visibly include and separately identify within each appropriate cell any and all inputs, formulas, calculations, etc. The Offeror should not provide “value only spreadsheets” similar to a hard copy.

Fixed Fees on ONR Contracts: The Government Objective is set in accordance with the DFARS 215.404-71. See the below table for range and normal values:

Contract Risk Factor	Contract Type	Assigned Value (Normal range)	Normal Value
Technical ⁽¹⁾		3% - 7% ⁽²⁾	5%
Management/ Cost Control ⁽¹⁾		3% - 7% ⁽²⁾	5%
Contract Type Risk	Firm Fixed Price	2% - 6% ⁽³⁾	3% - 5% ⁽⁴⁾
Contract Type Risk	Cost Plus Fixed Fee	0% - 1% ⁽²⁾	0.5%

(1) Assign a weight (percentage) to each element according to its input to the total performance risk. The total of the two weights equal 100%

(2) Assign a weighting score relative to the Risk Factor.

(3) Depends on the specific Contract Type (With/without financing, performance-based payments, and/or progress payments).

(4) Depends on the specific Contract Type.

Technology Incentive (TI) is rarely utilized at ONR, because the contracts issued by ONR typically are not eligible for TI (See DFARS 215.404-71-2(c) (2)). Any consideration of TI requires strong and convincing justification in the proposal, which are then subject to negotiation and determination of a fair and reasonable fee, within the context of the specific award.

Typically, the range of fee is 5% to 7.5% on an ONR awarded contract.

7. **Other Submission Requirements**

ONR is utilizing FedConnect for the submission of full proposals for contracts and other transaction agreements. FedConnect is a web portal that bridges the gap between government agencies and performers to streamline the process of doing business with the government. Through this portal, performers will be able to review opportunities and submit proposals. To access FedConnect go to <https://www.fedconnect.net/FedConnect/default.htm>.

1. How to Register for FedConnect

A FedConnect how to guide can be found at

https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf

- 1) *Register with SAM:* In addition to having a UEI number, organizations applying online through Grants.gov must register with the System for Award Management (SAM). All organizations must register with SAM in order to apply online. If you have not registered in SAM, go to <https://sam.gov/content/home>.

If you are the first person in your organization to register in FedConnect, your SAM Marketing Partner ID (SAM MPIN) will also be required. It is the number that is set up by your organization as part of the registration in SAM.gov.

- 2) *Create a FedConnect Account:* The next step in the registration process is to create an account with FedConnect.

A FedConnect how to guide can be found at

https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf

See pages 25 through 33 of the FEDCONNECT Ready Set Go guide for step-by-step instructions on how to submit your documents.

2. FedConnect Assistance

If you need assistance, the FedConnect Support Team is standing by to assist you.

Email: fcsupport@unisonglobal.com

Phone: 1-800-899-6665

Hours: Monday – Friday, 8 a.m. to 8 p.m. EDT. Closed on Federal holidays.

FedConnect Frequently Asked Questions can be found on the ONR website at

<https://www.nre.navy.mil/work-with-us/how-to-apply/frequently-asked-questions>

Do not use the Message Center within FedConnect to submit questions, please email the POCs identified in Section G., Federal Awarding Agency Contacts.

Do not use the Message Center within FedConnect to submit proposals.

E. Application Review Information

3. Recipient Qualifications

b. Contract Proposals:

i. Contracts shall be awarded to responsible prospective contractors only. See FAR 9.104-1 for a listing of the general standards against which an applicant will be assessed to determine responsibility. Applicants are requested to provide information with proposal submission to assist the Contracting Officer's evaluation of responsibility.

ii. The Responsibility/Qualification section of SAM.gov at <https://sam.gov/content/fapiis>

The applicant representing the entity may comment in this system on any information about the entity that a federal government official entered. The information in SAM.gov will be used in making a judgment about the entity's integrity, business ethics, and record of performance under Federal awards that may affect the official's determination that the applicant is qualified to receive an award.

F. Federal Award Administration Information

2. Administrative and National Policy Requirements

i. Applies to Contracts (and may be applicable, as required, to Other Transaction Agreements):

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

Government research 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 indicate in the Proposal Checklist, Section II, Block 9a, which of these facilities/test sites are critical for the project's success. In the Proposal Checklist, Section II, Block 9b, Offerors need to specify whether they will be requiring GFE, GFM and GFI.

(2) Use of Arms, Ammunition and Explosives:

Safety

The Offeror is required to be in compliance with DoD manual 4145.26-M, *DoD Contractor's Safety Manual for Ammunition and Explosives* if ammunitions and/or explosives are to be utilized under the proposed research effort. (See DFARS 223.370-5 and DFARS 252.223-7002, 252.223-7003 and 252.223-7007) If ammunitions or explosives (A&E) are to be utilized under the

proposed research effort, the Government requires a preaward safety survey in accordance with DFARS PGI 223.370-4(C)(iv) entitled *Preaward Survey* and the Contracting Officer shall prepare a Standard Form (SF) 1403 Pre-Award Survey of Prospective Contractor (General) in order to initiate the survey.

If the Offeror proposes that the Government provide Government-furnished A&E containing any nitrocellulose-based propellants and/or nitrate ester-based materials (such as nitroglycerin) or other similar A&E with a tendency to become chemically unstable over time, then NMCARS 5252.223-9000 will also apply to a resulting contract award. (See NMCARS 5223.370-5)

Security

If sensitive (Security Risk Category I, II, III, IV) arms, ammunition or explosives (AA&E) are to be utilized under the proposed research effort, the Government requires a preaward security survey. The Contracting Officer shall prepare a Standard Form (SF) 1403 Pre-Award Survey of Prospective Contractor (General) in order to initiate the survey. (See DoD manual 5100.76-M dated April 17 2012, *Physical Security of Sensitive Conventional Arms, Ammunition and Explosives*, Enclosure 2, paragraph 2.a, and DFARS 252.223-7007).

If AA&E are to be utilized under the proposed research effort, the Government may require the Contractor to have perimeter fencing around the place of performance in accordance with DoD 5100.76-M dated April 17 2012, Enclosure 5, paragraph 2.a.

If AA&E are to be utilized under the proposed research effort, the Offeror is required to provide a written copy of the Offeror's AA&E accountability procedures in accordance with DoD 5100.76-M. If the Offeror is required to provide written AA&E accountability procedures, the Offeror should provide the respective procedures with its proposal submission. See DoD 5100.76-M dated April 17 2012, Enclosure 9, paragraph 9.

(3) System for Award Management (SAM):

FAR 52.204-7 System for Award Management and FAR 52.204-13 System for Award Management Maintenance are incorporated into this BAA, and FAR 52.204-13 will be incorporated in all awards.

(4) Employment Eligibility Verification (E-verify):

As per FAR 22.1802, recipients of FAR-based procurement contracts must enroll as Federal Contractors in E-verify and use E-verify to verify employment eligibility of all employees assigned to the award. All resultant contracts from this solicitation will include FAR 52.222-54, "Employment Eligibility Verification."

(5) Conflicts of Interest:

- (a) Disclosure. An offeror shall state in its proposal whether it is aware of any information

bearing on the existence of any actual or potential organizational conflict of interest (OCI) as defined in FAR 2.101 and as further discussed in FAR Subpart 9.5 as to itself and any proposed subcontractors, partners, consultants or other affiliates. Offerors performing systems engineering and technical assistance (SETA) for ONR are considered to have an OCI that may not be susceptible to mitigation. See ONR's Statement of Policy on OCIs, which can be found at the following address: <https://www.onr.navy.mil/work-with-us/how-to-apply/compliance-protections/organizational-conflicts-of-interest>.

The nondisclosure or misrepresentation of an interest creating an OCI may result in the disqualification of an offeror for award, or if such nondisclosure or misrepresentation is discovered after award, the Government may terminate the contract for default, recommend that the contractor be disqualified from subsequent related contracts, or be subject to such other remedial actions as may be permitted or provided by law (see 18 U.S.C. § 1001 and 31 U.S.C. § 3802(a)(2)). Therefore, offerors should interpret the requirements of this section broadly.

An offeror who does not provide support services to ONR or concludes no actual or potential OCI exists shall include the following statement in its proposal: "I [NAME] as an authorized negotiator on behalf of [NAME OF OFFEROR] certify that **NO** actual or potential organizational conflict of interest (OCI) exists under [BAA NUMBER]. I understand that the failure to disclose the existence of actual or potential OCI shall result in the offeror not being considered for award."

An offeror who does provide support services to ONR or is aware circumstances exist that may result in the appearance that it may have an unfair competitive advantage shall submit the following with its proposal:

- (i) The name of the entity the offeror, its subcontractors, partners, consultants or affiliates supports.
- (ii) The number of the contract, subcontract, or agreement that creates the actual or potential OCI. If ONR did not award the contract or agreement, provide a copy of the document. If ONR awarded the contract, provide the name of the technical point of contact.
- (iii) A description of the actual or potential OCI. The statement must describe in a concise manner all relevant facts concerning any past, present or currently planned interest (financial, contractual, organizational, or otherwise) relating to the work to be performed hereunder and bearing on whether the offeror has a possible organizational conflict of interest with respect to (1) impartial, technically sound, and unbiased assessments, recommendations, or evaluations, or (2) being given an unfair competitive advantage. If relevant, offerors shall address the personal conflicts of their employees.
- (iv) A Mitigation Plan. Offerors should refer to FAR Subpart 9.5 for policies and procedures for avoiding, neutralizing, or mitigating organizational conflicts of interest.
- (v) A concluding statement as follows: "I [NAME] as an authorized negotiator on behalf of [NAME OF OFFEROR] certify that I have, to the best of my knowledge and belief, disclosed all actual or potential organizational conflicts of interest (OCI) under [BAA NUMBER]. I

understand that the failure to disclose the existence of an actual or potential OCI shall result in the offeror not being considered for award.”

(b) OCI Mitigation Plan Contents. At a minimum, a Mitigation Plan shall:

(i) Provide organizational charts showing the offeror’s (and, as appropriate, those of its subcontractors, partners, consultants, and affiliates) structure as it relates to performance under the contract awarded under this BAA and all contracts and agreements relevant to the OCI, highlighting those elements that create the actual or apparent OCI.

(ii) Demonstrate how the elements that create the actual or apparent OCI will be isolated from the resources that will perform work under the contract awarded under this BAA.

(iii) Provide information showing whether the organizational elements that will perform work under the contract awarded under this BAA will be geographically or physically separated from the elements that create the actual or apparent OCI.

(iv) For each contract or agreement relevant to the OCI, describe the process for reassigning personnel, including those belonging to subcontractors, partners, consultants, and affiliates, from one organization to another. Include restrictions that apply.

(v) For each contract or agreement relevant to the OCI, describe any controls, including nondisclosure agreements that are exercised over the future employment of departing employees as it relates to the OCI.

(vi) For each contract or agreement relevant to the OCI, describe any OCI training the employees are offered or required to attend, along with the timing (before or after starting work on a government contract), frequency, length, and content of such training.

(vii) Provide evidence of facts and circumstances that the offeror asserts mitigate or address the concerns related to the actual or potential OCI.

(c) Review. The Contracting Officer will review an offeror’s certifications, statements, and OCI Mitigation Plan (if applicable) submitted and may require additional relevant information from an offeror. All such information and any other relevant information will be used by the Contracting Officer to determine whether an award to the offeror may create an OCI. If found to exist, the Government may: (1) impose appropriate conditions which avoid such conflict, (2) disqualify the offeror, (3) determine that it is otherwise in the best interest of the Government to award a contract to the offeror and include appropriate conditions mitigating such conflict in the award, or (4) seek a waiver. If the Contracting Officer determines that an actual or significant potential conflict of interest exists that cannot reasonably be avoided, neutralized or mitigated, the offeror will be ineligible for award. If accepted, the Mitigation Plan shall become part of the contract.

An offeror who has refused to disclose the information or make the certification required by this BAA concerning an actual or potential OCI shall be disqualified from consideration for award.

6. FAR / DFARS Provisions/Clauses: For purposes of illustration, the following provisions and

clauses may be applicable to ONR contracts. ONR reserves the right to include any relevant and current FAR, DFARS or NMCARS clauses necessary and required in the final award based on the dollar value of the award. All FAR and DFAR references may be accessed from <https://acquisition.gov/>.

#	Provision/Clause
52.204-7	System for Award Management
52.204-13	System for Award Management Maintenance
52.204-16	Commercial and Government Entity Code Reporting
52.204-24	Representation Regarding Certain Telecommunications and
52.204-25	Prohibition on Contracting for Certain Telecommunications and
52.204-27	Prohibition on a ByteDance Covered Application
52.204-26	Covered Telecommunications Equipment or Services
52.209-9	Updates of Publicly Available Information Regarding Responsibility Matters
52.215-20	Requirements for certified cost and pricing data and data other than certified cost and pricing data
52.215-16	Facilities Capital Cost of Money
52.215-22	Limitations on Pass Through Charges - Identification of Subcontract Effort
52.216-1	Type of Contract
52.216-27	Single or Multiple Awards
52.217-4	Evaluation of Options Exercised at time of Contract Award
52.217-5	Evaluation of Options
52.217-9	Option to Extend the term of the Contract
52.222-24	Preaward On-Site Equal Opportunity Compliance Evaluation (Applies if exceeds \$10M)
52.222-50	Combating Trafficking in Persons
52.222-56	Certification Regarding Trafficking in Persons Compliance Plan
52.226-2	Historically Black College or University and Minority Institution Representation
52.230-7	Proposal Disclosure - Cost Accounting Practice Changes
52.232-15	Progress Payments not included
52.233-2	Service of Protest
52.252-1	Solicitation Provisions Incorporated by Reference
52.252-3	Alterations in Solicitation
52.252-5	Authorized Deviations in Provisions
252.203-7000	Requirements Relating to Compensation of Former DoD Officials
252.203-7005	Representation Relating to Compensation of Former DoD Officials
252.204-7004	Alternate A, System for Award Management

252.204-7008	Compliance with Safeguarding Covered Defense Information Controls
252.204-7012	Safeguarding Covered Defense Information and Cyber Incident Reporting
252.204-7018	Prohibition on the Acquisition of Covered Defense Telecommunications Equipment or Services
252.204-7024	Notice on the Use of the Supplier Performance Risk System
252.204-7029	Federal Acquisition Supply Chain Security Act – Orders
252.204-7030	Federal Acquisition Supply Chain Security Act Orders - Prohibition
252.215-7003	Requirements for Submission of Data Other than Certified Cost or Pricing Data - Canadian Commercial Corporation
252.204-7019	Notice of NIST SP 800-171 DoD Assessment Requirements
252.204-7020	NIST SP 800-171 DoD Assessment Requirements
252.219-7000	Advancing Small Business Growth
252.223-7002	Safety Precautions for Ammunition and Explosives
252.223-7003	Change in Place of Performance-Ammunition and Explosives
252.223-7007	Safeguarding Sensitive Conventional Arms, Ammunition, and Explosive
252.225-7055	Representation Regarding Business Operations with the Maduro Regime (MAY 2022)
252.225-7057	Preaward Disclosure of Employment of Individuals Who Work in the People's Republic of China
252.225-7058	Postaward Disclosure of Employment of Individuals Who Work in the People's Republic of China
252.225-7059	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region–Representation.
252.225-7060	Prohibition on Certain Procurements from the Xinjiang Uyghur Autonomous Region.
252.225-7972	Prohibition on the Procurement of Foreign-Made Unmanned Aircraft Systems (DEVIATION 2020-O0015)
252.225-7973	Prohibition on the Procurement of Foreign-Made Unmanned Aircraft Systems – Representation (DEVIATION 2020-O0015)

(7) Certificate of Current Cost or Pricing Data Requirement

Even though the BAA is a competitive procedure, all proposals submitted under this BAA that meet the TINA threshold are subject to certified cost and pricing data.

In accordance with OUSD Memorandum, Subject: "Reducing Acquisition Lead Time by Eliminating Inefficiencies Associated with Cost or Pricing Data Submissions After Price Agreement ('Sweep Data)," dated 07 June 2018, if an action is subject to the Truth in Negotiations Act, offerors are required to execute the Certificate of Current Cost or Pricing Data as soon as practicable, but no later than five business days after the date of price agreement.

Any cost or pricing data submitted after price agreement shall be reviewed and dispositioned after award of the contract action, pursuant to FAR 15.407-1, to establish whether it is rendered that the certified cost or pricing data submitted up to the point of price agreement was defective, and to determine whether the Government is entitled to a price adjustment in accordance with FAR 52.215-10 or FAR 52.215-11.

(8) Contract Authority for Development and Demonstration of Initial or Additional Prototypes

In accordance with 10 USC 4004 (Section 861 of the National Defense Authorization Act (NDAA) for Fiscal Year 2018 as amended by Section 831 of the NDAA for Fiscal Year 2021) a contract issued under this BAA, may be awarded with or later modified to contain a contract line item or contract option for the development and demonstration or initial production of technology developed under the contract or for the delivery of initial or additional items if the item or prototype thereof is created as the result of work performed under the contract.

(9) Enhanced Security Controls on Select Defense Industrial Base Partner Networks
In accordance with NMCARs 52.204.7303 entitled, “Safeguarding Covered Defense Information and Cyber Incident Reporting” certain performers may be required to implement enhanced cyber security controls to unclassified networks housing controlled unclassified information (CUI). Such controls are in addition to the requirements of DFARS clause 252.204-7012, and may be required if the Chief of Naval Research (CNR) determines that enhanced controls are warranted by the risk to a critical program or technology. Offerors are strongly encouraged to consult with the cognizant Program Officer to determine whether these requirements will apply to a particular effort.

ii. Applies to Other Transaction Agreements (OTAs) only:

(1) In accordance with 10 U.S.C. § 4022, ONR may award a follow-on production contract or OTA for any OTA awarded under this BAA if: (1) the participant(s) in the OTA successfully completed the entire prototype project provided for in that OTA, as modified, and (2) the OTA provides for the award of a follow-on production contract or OTA to the participant(s).

(2) REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2020)

(a) *Definitions.* As used in this provision-*Backhaul, covered telecommunications*

equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component have the meanings provided in the clause 52.204–25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) *Prohibition.* (1) Section 889(a)(1)(A) of the John S. McCain National Defense

Authorization Act for Fiscal Year 2019 (Pub. L. 115–232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered

telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

- (i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
- (ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

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

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

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

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

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

(1) It ☐ will, ☐ will not provide covered telecommunications equipment or services to the

Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds “will” in paragraph (d)(1) of this section; and

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

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

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

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity

name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

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

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

(ii) For covered services—

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

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

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

(i) For covered equipment—

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

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

(C) Explanation of the proposed use of covered telecommunications equipment and

any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii) For covered services—

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

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

APPENDIX 2-1 - MANUFACTURING INNOVATION INSTITUTES

1. **MII Purpose.** The DoD has established a network of Manufacturing Innovation Institutes (MIIs) that are managed by OUSD(R&E)/ManTech within the Defense-wide Manufacturing Science and Technology program. MIIs bring together industry, non-profits, and academia with federal and state agencies to accelerate innovation by investing in industrially relevant manufacturing technologies with broad applications. Each MII provides support to propel research and development products to commercialization and economic viability. The MIIs do this by developing and scaling critical technologies in the Manufacturing Readiness Level (MRL) 4 to 7 range. These MIIs are public-private partnerships that provide their consortium members with shared access to state of the art equipment and capabilities. The institutes also create an environment to educate and train students and workers in advanced manufacturing skills. Each MII has a specific technical or market focus and serves as a hub of manufacturing with national impact in that focus area, providing the infrastructure necessary to create a highly collaborative environment to spur manufacturing technology innovations which in turn lead to production scale-up and commercialization. Once established, each MII becomes part of the DoD MII network.
2. **MII Network Design Tenets.** MII design tenets were initially captured in the National Network for Manufacturing Innovation: A Preliminary Design, a National Science and Technology Council report issued on January 16, 2013, and subsequently revised by the DoD to better align with lessons learned from eight previous DoD Institutes. The current DoD MII design tenets include:
 - Industry-driven public-private partnerships, led by independent, not-for-profit institutions that strongly leverage existing resources
 - Federal funding matched by Industry/Academic/State cost share
 - Domestic industrial commons created through shared IP and facilities
 - Investments in applied research and industrially relevant manufacturing technologies
 - Providing access to capabilities for small and medium-sized manufacturing

enterprises

- Education and Workforce Development investments to promote a robust U.S. ecosystem
- MII activities harmonized to meet both DoD and Service modernization priorities and commercial applications
- MII size and scale sufficient to provide long-term economic impact

3. **MII Critical Functions.** Figure 1 illustrates the critical functions of a DoD MII. Although each MII chooses objectives that best serve its own technology ecosystem, all DoD MIIs are expected to pursue the following operational objectives:



Figure 1. DoD MII Critical Functions

- a) **Hire and Retain Key Management Staff.** MII management should be primarily focused on the operation and management of the proposed MII. The MII Executive Director/CEO is expected to be a full-time position and key management staff (e.g., Deputy Directors and other C-Suite staff) give >75% time commitment to the MII.
- b) **Establish and Manage Physical and Virtual Infrastructure.** Although the MII should have access to and leverage a broad range of infrastructure owned by the MII's member and partner organizations, the MII should establish and operate physical and virtual infrastructure appropriate in scale and capability to the MII's mission. The long-term cost of operating the infrastructure should be covered by the long-term revenues earned through its operation.
- c) **Conduct Annual Planning.** Employ annual planning processes to incorporate the best ideas, broad stakeholder involvement and involve broad participation in MII activities. The MII Annual Program Plan must include a detailed budget with a revenue strategy to ensure sufficient funding for core MII purposes. Plans should also include how changes to the business plan will be managed to align with the technology roadmap and enable partnerships

with other Federal government agencies.

- d) **Develop Business Plans to Achieve and Maintain MII Viability.** Develop plans to become a financially viable, world-leading innovation institution. Develop and implement business plans for generating revenue. Bring together private and public entities to develop and accelerate adoption of innovative next generation manufacturing technologies which will lead to increased domestic production capacity, measurable commercialization success, and support national needs. Use these successes to drive continued investment into the MII by both public and private partners.
- e) **Define MII Structure/Governance.** The MII will operate under a non-profit organization but must be sufficiently independent to remain neutral and non-biased when working with member organizations. Members should recognize the MII as impartial when it makes sub-award determinations and selects representatives to governance bodies. The MII should not position itself to compete with its members for the provision of products and services.
- f) **Continuously Improve MII Operations.** Recognize the economic value and technical innovation created through the establishment of the MII. Build upon those achievements by incorporating technical and programmatic lessons learned to widen the aperture of impactful research and development while retaining a sharp focus on generating real, transformative value. As an element of this focus, continue to develop and periodically update integrated technology roadmaps for research, development, and implementation objectives. Create mechanisms to assess progress towards attaining these goals.
- g) **Involve Industry and Academia.** Define clear and transparent MII by-laws, policies, and strategies for recruitment and active participation of a wide range of members in the MII. Leverage relevant existing private and public sector resources, facilities, national laboratories, university centers, and other government institutions or investments. Provide a plan to engage stakeholders along the supply chain, including end users, to benefit from the Institute resources and support a strong domestic integrated supply chain. Obtain participation from regional economic organizations such as state and local Governments, development agencies, non-profit organizations, and foundations.
- h) **Engage with DoD and Other Government Partners.** Develop and implement a working relationship with government partners, including participation in decision making. The MII, as a public-private partnership, will accommodate expectations of the DoD and other Federal government partners to participate in decision making bodies (e.g., committees/working groups) at both a strategic and technical level. Identify and engage with DoD and government partners to create investment opportunities.
- i) **Develop Technology Roadmap and Execute Project Calls.** Create time-based and event-based roadmaps for maturing technology areas, including associated manufacturing processes and capabilities as well as R&D. Demonstrate a working, streamlined framework for defining, selecting, and executing projects for all stakeholders. Projects may address technology, manufacturing, workforce development, or demonstration.
- j) **Foster Education and Workforce Development.** The MII has a separate and unique responsibility to support and encourage domestic, technical workforce development. This

includes the development and integration of educational programs, internships, and professional training and re-training for the industry. Creating an educated, skilled, and multi-disciplinary workforce that is capable of sustaining the commercial and DoD industrial base is critical for success of the MII. Development of curricula in partnership with educational institutions (including K-12 schools, universities and community colleges) is needed to bridge the gaps from research and development to full-scale production. Efforts should also be made to provide students and trainees with the critical manufacturing and entrepreneurial skills that will prepare them for a successful transition to the workforce and enable success in the development and commercialization of manufactured products through programs such as internships or industrial co-ops.

- k) **Develop Manufacturing Technology.** Position the MII at the cutting edge of applied research in this technology area and ensure the MII is equipped with the scientific and engineering expertise and access to state of the art equipment and facilities required to achieve this critical function. Conduct R&D and prototyping projects to demonstrate the desired future state for both DoD and commercial customers.
- l) **Foster Creation of Commercialized Products.** The MII should target its R&D investments towards technology development projects, demonstrations, and prototypes that are intended to result in industry partners creating commercially successful products.
- m) **Create and Maintain an IP-Protected Innovation Ecosystem.** Provide for collaboration on pre-competitive work among multiple parties in a robust Intellectual Property (IP)-protected environment to attract stakeholders to the technology area. Foster the creation and ownership of IP by inventors while protecting background IP and encouraging the IP's commercialization through licensing and/or productization.
- n) **Coordinate Development of Industry Standards.** The MII should position itself to coordinate the efforts of industry and relevant Standards Development Organizations to identify the need for new or revised standards and accelerate the development of those standards.
- o) **Generate Cost Share and Continued Investment.** Attract cost share by proving the MII's value to industry, academia, and state and regional stakeholders. Cost share from members or stakeholders adds to the manufacturing innovation ecosystem and is needed to ensure a vibrant domestic manufacturing base. The MII should engage the ecosystem in ways that stimulate continued investment in relevant technologies through both the MII itself and the larger biotechnology industrial base.
- p) **Enhance Defense Capabilities.** As a DoD-sponsored institute, the MII should engage with DoD partners to include DoD modernization priorities and defense applications in the MII's technology roadmaps. Manufacturing technology development projects should strive to enhance defense capabilities. Technologies with both defense and commercial applications should be pursued when they can contribute to defense capabilities while also serving larger commercial markets.