

1-Step Broad Agency Announcement

Overview Information

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Federal Agency Name: Air Force Research Laboratory, Materials and Manufacturing Directorate, AFRL/RX

Program Name: A Pilot Institute for the National Network for Manufacturing Innovation (NNMI)

Broad Agency Announcement (BAA) Title: Additive Manufacturing Innovation Institute

Broad Agency Announcement Type: This is the *Initial Announcement*

Broad Agency Announcement Number: BAA-12-17-PKM

Catalog of Federal Domestic Assistance (CFDA) Number(s): 12.800_AF

Proposer's Day: A Proposer's Day for this solicitation will be held on **16 May 2012**. The purpose of the Proposer's Day is to familiarize potential proposers with the NNMI Pilot Institute concept and the associated technology needs in the areas of additive manufacturing. This Proposer's Day is for informational purposes only. Attendance is not a prerequisite for submitting a proposal. However, it will provide a valuable opportunity for potential proposers to have questions answered. Participation is voluntary. There is no fee to attend. The Government will not reimburse the attendees for any cost associated with participation. In addition, the Government is under no obligation to award any related contract/agreement associated with this event. Further details on this event may be found at: <https://www.fbo.gov/index?s=opportunity&mode=form&id=317b33fbbcb4539d4b3f254db642f&tab=core&cvview=1>.

Proposal Due Date and Time: ***14 June 2012 3:00 PM EST. NOTE: Proposal receipt after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3). It should be noted that this installation observes strict security procedures to enter the facility. These security procedures are NOT considered an interruption of normal Government processes, and proposals received after the above stated date and time as a result of security delays will be considered "late." Furthermore, note that if offerors utilize commercial carriers in the delivery of proposals, they may not honor time-of-day delivery guarantees on military installations. Early proposal submission is encouraged.***

Solicitation Request: Air Force Research Laboratory, Materials and Manufacturing Directorate, AFRL/RX, Wright Research Site is soliciting technical and cost proposals on the endeavor described below. Proposals shall be addressed to the contracting Point of Contact (POC) stated in Section VII of the Full Text Announcement. This is a restricted solicitation limited to a non-profit [501(c)(3) designated] organization

to serve as the recipient for an Additive Manufacturing Innovation Institute. The recipient can be a research-oriented entity such as a U.S. university or other non-profit research center. If a U.S. university is the recipient, a non-profit partnership shall also be proposed with a cluster of manufacturing firms and associated institutes. If a non-profit, industry-led partnership is the recipient, U.S. universities shall also be formal collaborators for applied research, integrative education, and workforce training. Small businesses are encouraged to propose on all or any part of this solicitation as part of a teaming arrangement. The NAICS Code for this acquisition is **541712 (for Research and Development in the Physical, Engineering, and Life Sciences (except Biotechnology))**. Proposals submitted shall be in accordance with this announcement. *There will be no other solicitation issued in regard to this requirement.* Offerors should be alert for any BAA amendments that may permit extensions to the proposal submission date.

CCR Registration: Unless exempted by 2 CFR 25.110 all offerors must (1) be registered in the Central Contractor Registration (CCR) prior to submitting an application (for an assistance award) or proposal; (2) maintain an active CCR registration with current information at all times during which it has an active federal award or an application or proposal under consideration by an agency; and (3) provide its DUNS number in each application or proposal it submits to the agency. On-line registration instructions can be accessed from the DISA CCR home page at <http://www.ccr.gov>.

On-line Representations and Certifications: Potential offerors should complete the Representations and Certifications located at Appendix I. to this BAA. Section IV.2.3 provides more information.

Type of Contract/Instrument: The Government intends to award a Department of Defense Grant and Agreement Regulations (DoDGARS)-based Cooperative Agreement for Research. The Government reserves the right to award other assistance instruments.

Estimated Program Cost: The award ceiling is \$60.0M, of which Government share is \$30.0M plus up to an additional \$30.0M of desired 50/50 Recipient Cost Share. The Government share broken out by Fiscal Year is shown below:

FY12	FY13	FY14	Total
\$18.8M	\$4.0M	\$7.2M	\$30.0M

Anticipated Number of Awards: The Air Force reserves the right to make a single award or no award as a result of this BAA. We anticipate making only one (1) award.

Definitions:

Additive Manufacturing: Process of joining materials to make objects from 3D model data, usually layer upon layer, as opposed to subtractive manufacturing methodologies, such as traditional machining. Synonyms include *additive*

fabrication, additive processes, additive techniques, additive layer manufacturing, layer manufacturing and freeform fabrication (ASTM 2792-12)

Applied Research: Investigation of the findings of 'pure' or basic research to determine if they could be used to develop new products or technologies. Applied research includes manufacturability, and spans Technology Readiness Levels (TRLs) and Manufacturing Readiness Levels (MRLs) from 4 to 7. Applied research within the context of this BAA seeks to solve specific problems or to answer specific questions related to advanced manufacturing. Applied Research may be focused on, but not limited to, areas outlined within the Technical Plan/Scope section of this BAA and towards technology transitions to products that address current and future operational needs of Department of Defense (DoD) and Department Of Energy (DOE), as well as other commercial products.

Infrastructure: Physical and organizational structure of the pilot Institute; which does not include building new facilities or renovating existing facilities, but may include equipment, services (including educational and workforce development) and maintenance of existing facilities necessary for the Institute to function.

Institute: Center of technical excellence within which research, development, demonstration, technology transition, integrative education and workforce development take place, housed within a non-profit [501(c)(3) designated] organization, closely tied to a physical or virtual cluster of specialized manufacturing firms and associated institutions specializing in the technology focus area.

Brief Program Summary: This announcement is to solicit proposals to initiate and sustain an Additive Manufacturing Innovation Institute, the first institute to be launched within the National Network for Manufacturing Innovation (NNMI). On March 9, 2012, President Obama announced the NNMI to establish a pilot Institute and up to fourteen subsequent institutes for manufacturing innovation around the country (<http://www.whitehouse.gov/blog/2012/03/09/president-obama-talks-about-how-boost-innovation-manufacturing>). The Institutes will bring together industry, universities and community colleges, federal agencies, and our states to accelerate innovation by investing in industrially relevant manufacturing technologies with broad applications to bridge the gap between basic research and product development, provide shared assets to help companies – particularly small manufacturers – access cutting-edge capabilities and equipment, and create an unparalleled environment to educate and train students and workers in advanced manufacturing skills. Each Institute will serve as a regional hub of manufacturing excellence, providing the innovation infrastructure to support regional manufacturing hubs. When established, each Institute for Manufacturing Innovation will be a public-private partnership and part of the NNMI. A Request for Information (RFI) for future institutes and the structure of the national network has been issued separately from this solicitation (<https://www.federalregister.gov/articles/2012/05/04/2012-10809/request-for-information-on-proposed-new-program-national-network-for-manufacturing-innovation-nnmi>).

This BAA is only intended for the pilot Institute which will serve as a proof-of-concept for the potential subsequent institutes. The Government is seeking proposals to this BAA which shall provide detailed example applied research project focus areas, technology transition plans for DoD and DOE applications, proposed infrastructure and a sustainable business plan. The technical focus area of the pilot Institute will be Additive Manufacturing, a revolutionary suite of manufacturing technologies for building up parts, and potentially entire systems, in a layer-by-layer fashion, placing material precisely as directed by a 3D digital file. The Institute is intended to be funded initially to a \$60M level, of which \$30M is multi-agency U.S. Government funding, and an additional \$30M is strongly desired to be provided as cost share, both direct and in-kind.

The lead agency to launch this initiative is the Office of the Secretary of Defense (OSD), Manufacturing and Industrial Base Policy (MIBP), through OSD Manufacturing Technology. The pilot Institute award and management will be a cross-agency effort, but will primarily be led by the Defense-wide Manufacturing Science and Technology (DMS&T) Program Office executed through the Materials and Manufacturing Directorate, Air Force Research Laboratory (AFRL/RX). The DMS&T Program was established to mature cross-cutting defense manufacturing needs beyond the ability of a single service to address, and stimulate early development of manufacturing processes and enterprise business practices concurrent with S&T development to achieve the largest cost-effective impact.

This is a restricted solicitation limited only to universities and non-profit [501(c)(3) designated] organizations and the recipient must be registered as a U.S. organization. Participants which utilize the Institute may not be required to be U.S. organizations unless the sensitivity of the applied research necessitates this arrangement. Furthermore, the proposal must demonstrate that the proposed Institute has the potential to advance manufacturing within the United States.

Proposals shall be addressed to the contracting Point of Contact (POC) stated in Section VII of the Full Text Announcement.

Address any contracting questions to: *Ms. Dawn Ross or Mr. Tony Everidge, Det 1 AFRL/PKDB, NNMI2012@wpafb.af.mil*

Address any technical questions to: *Dr. Jennifer Fielding, AFRL/RXMT, NNMI2012@wpafb.af.mil*

Full Text Announcement

- I. Program Description:** Air Force Research Laboratory, Materials and Manufacturing Directorate, AFRL/RX is soliciting technical and cost proposals on the following research effort:

Statement of Objective/Needs. The objective of this solicitation is to identify a recipient to establish a pilot Institute for Additive Manufacturing to accelerate research, development, and demonstration in additive manufacturing and transition technology to manufacturing enterprises within the United States. This pilot Institute for the NNMI is envisioned to bring together large and small businesses, academia, federal and state agencies to accelerate innovation by investing in industrially relevant manufacturing technologies. The Additive Manufacturing Innovation Institute will serve to bridge the gap between basic research and product development, provide shared assets to help companies access cutting-edge capabilities and equipment, and create an unparalleled environment to educate students and train workers in advanced manufacturing skills. This pilot Institute will serve as a technical center of excellence, providing the innovation infrastructure to support manufacturing enterprises of all sizes and ensure that the U.S. manufacturing sector is a key pillar in an enduring and thriving economy. The goal of the pilot Institute is to increase the successful transition of additive manufacturing technology through advanced manufacturing innovation, create an adaptive workforce capable of meeting industry needs, further increasing domestic competitiveness, and meet DoD, DOE, and other participating civilian agency requirements.

Program Protection Plan. Any critical program information (CPI) with a potential requirement for a program protection plan (PPP) generated as part of this effort will be addressed as needed.

Operations Security (OPSEC). The awardee shall participate in the organization's OPSEC program, following appropriate OPSEC measures during the performance of this Cooperative Agreement. OPSEC requirements are required in an effort to reduce program vulnerability from successful adversary collection and exploitation of critical information. The awardee shall ensure that applied research projects conform as required to the OPSEC and marking requirements as necessary, based on the project sensitivity level.

- 1. Project Needs/Requirements. The efforts under this solicitation contain two parts: Part A: Institute Structure and Part B: Applied Research.** In order to establish the Additive Manufacturing Innovation Institute as a proof-of-concept for subsequent institutes, the Government is requesting proposals that include the following:

Part A: Institute Structure. The purpose of the Pilot Institute is to accelerate the development, integration, evaluation and exploitation of efficient/rapid/flexible additive manufacturing technologies for commercial

manufacturing within the United States. The pilot Institute shall either physically or virtually have access to all relevant manufacturing technologies including fabrication design tools, processing tools, test and evaluation equipment, and the necessary expertise to maintain these assets. The Institute structure shall also develop the necessary framework to create a project based learning environment and create appropriate interfaces to interact with external educational and workforce training activities.

1) Business Plan. The offeror shall outline a comprehensive financial plan to achieve sustainability of the pilot Institute within five (5) years. The proposal shall include a detailed business plan for the formation and sustainment of the pilot Institute, including appropriate roles for and resources from government (federal, state, and local), industry, academic, and any other formal partners. The proposal shall include a plan for interfacing with industry associations, professional societies, and economic development organizations. In addition to the details of the business plan, the offeror shall include how other government authorities will be leveraged, including the Small Business Innovative Research (SBIR) program, Manufacturing Extension Partnerships (MEPs), and other US Government authorities that might supplement this effort.

The business plan shall have the following attributes:

- **Financial Sustainability Plan**
 - Outline anticipated federal and any additional government resources (local/state), but do not anticipate additional funding from the proposed NNMI program
 - Include letters of commitment/support on any anticipated cost share
 - Show how applied research performed within this institute will be competitive (e.g., cost, time, quality) compared to the alternatives presently available
 - Describe a marketing plan to attract industry funding and participation
- **Intellectual Property (IP)** – see special section below
 - Describe a comprehensive plan showing how participants will fairly determine IP rights and how prior IP will be protected
- **Strategy for Innovation**
 - Describe a strategy to engage other markets and talent
 - Detail how the commercial sector will be engaged, including the international community
- **Management Structure**
 - Propose a management structure, detailing procedures for decision making

- Describe the process for research project selection and management
- Describe how technical reviews shall take place
- **Initial Partners and Relationships**
 - Describe the proposed initial formal partners and relationships, which shall be unbiased towards any one private company or stakeholder
 - Describe how access shall be ensured for small businesses
 - Describe strategies for interfacing with existing research, educational, and technology development efforts
 - Describe proposed collaborative scale-up and commercialization activities
- **Recruitment, Education, and Training Plan**
 - Describe plans for attracting and developing students in degree, career and technical education (or certification) programs
 - Describe methods to apply best practices to the Institute's activities and how existing Science, Technology, Engineering and Math (STEM) efforts may be integrated into the Institute's educational and training plan
 - Detail approaches to engage relevant industry partners' needs and create validated and accepted educational activities and programs
- **Technology Dissemination Plan**
 - Describe any plans for public forums, workshops, and technical seminars, and/or other methods to disseminate results of applied research to the broader community

Intellectual Property (IP). A crucial aspect of the business plan is how the recipient will handle intellectual property. Therefore, the offeror shall provide a detailed plan for the protection and generation of IP. It is envisioned that the Institute will act as a "trusted broker" to maintain confidentiality of the IP and special know-how, and, if needed, assist in the negotiating of IP rights to other participants in the pilot Institute. To the fullest extent possible, data generated within the pilot Institute should be made readily available to manufacturing researchers, including the instrumentation of production pilots to provide real-time data streams for model development and validation. The pilot Institute must be structured in the greatest extent possible to allow for the open exchange of manufacturing information, such as design tools, processing tools, qualification and certification approaches and potentially fabrication costing methods. A process must be proposed to allow for the protection of IP, yet enable the sharing of pre-competitive best practices. Technology developed under this Cooperative Agreement shall have Government Purpose Rights, a definition of which may be found under the section entitled: I. Program Description, 6. Data Rights Desired.

2) Technical Plan/Scope. The offeror shall provide details on the technical scope of research that will be initially performed, as well as the future technical vision and plans for the Additive Manufacturing Innovation Institute. Additive manufacturing can encompass a wide variety of structural and functional material types and processes. It is envisioned that the Institute shall include any of the following, or combinations of the following, additive manufacturing focus areas:

- Metallic Components
- Polymeric/Composite Components
- Electronic Components

An advantage of additive manufacturing is that parts can be fabricated as soon as the 3D digital description of the part is created, thus establishing a new market for on-demand, mass customization manufacturing. The need for tooling is minimized, material waste is minimized, and the supply chain is drastically compressed. In addition, novel components and structures can be produced from additive manufacturing processes that cannot be cost effectively produced from conventional processes.

Advances in this technology are sought in several areas including, but not limited to:

- **Process Development, for example:**
 - Incorporation of *in situ* metrology, process controls, and non-destructive evaluation to measure and improve part quality and system performance
 - Improved as-built geometric accuracy, surface finish, corrosion resistance, and wear resistance
 - Improved build rates, manufacturing throughput, process reliability, and yield
 - Hybrid material builds for integrated, multifunctional properties such as tailored stiffness, electrical conductivity or cooling passages
 - Improved resolution of printed features; micron-scale printing to enable high-performance electronic components
 - Fabrication methods requiring lower energy-intensity
 - Advanced methods to qualify and certify additive manufacturing processes and products rapidly and affordably
- **Materials Research, for example:**
 - Materials, part, and component characterization to better understand structure/process/property relationships, to exploit the greatest potential for additive manufactured parts
 - Materials applied research as it pertains directly to improving multifunctional material properties for raw materials used in additive processes and for additive manufactured parts, such as thermal and/or electrical properties

- **Advanced Manufacturing Enterprise Methodologies, for example:**
 - Enabling the rapid design and fabrication of current and future platforms through integration of digital product designs and manufacturing capability models
 - Leveraging computational tools and techniques to realize innovative designs through additive manufacturing
 - Predictive physics-based modeling to improve part quality
 - Modeling and simulation of additive manufacturing processes to include the integration of processing information, non-destructive evaluation, and stress analysis into the design process
 - Computational modeling of material property variabilities resulting from additive manufacturing process variabilities, contributing to the digital thread to enable a single computer-based technical description of the product at any point within the life cycle

- **Open Architecture Development, for example:**
 - Flexibility in raw materials, processing conditions settings, and utilization of open architecture machine control software that can be customizable for specific applications

- **Mobility and Logistics of Additive Manufacturing Networks**
 - Development of robust processes to enable part production at remote locations for point of use
 - Supply chain analysis for component distribution and logistics optimization

3) Technology Transition. Additive manufacturing is of interest to the DoD, DOE, and other participating civilian agencies and is ripe with potential for technology transition. Due to the advantages of additive manufacturing, considerable capability improvements and manufacturing cycle time reductions can be realized for new platforms. In addition, parts needed for DoD legacy systems can have a significant cost and cycle time savings because assembly tools are not required. The pilot Institute will seek to promote development and deployment of advanced and innovative cost-effective, energy-efficient materials and manufacturing technologies to meet both defense and commercial needs. Particular attention will be focused on those areas with the greatest impact in terms of reduced unit cost, improved lead times, and enhanced performance, across multiple Defense platforms. In addition, attention will be focused on areas with potential impact to reducing life-cycle energy cost of products and processes by 50% by within 10 years to support the DOE's energy efficiency mission. The government is also interested in those capabilities with the greatest potential for commercial applications that would enable the pilot institute to be self-sustaining.

Provide technology transition details for both DoD and DOE applications in example areas as follows:

- Fabrication of new products or designs for defense applications
- Fabrication of new components or tooling for sustainment
- Depot part repair and life extension of existing components, tooling or surface treatments
- Coatings for improved surface finish, corrosion resistance, or wear resistance
- Mobile manufacturing for warfighter direct support
- Fabrication of energy-efficient and renewable energy products and energy technologies
- Lightweight components for reduced fuel consumption

Processes should be developed that can transition to future production scale processes for larger and/or more complex components, products, and repairs. In addition, describe potential commercial applications, expected economic benefits such as job creation and spin-off companies as the result of planned technology transition pathways.

4) Infrastructure. Government funds shall not be used to build buildings or buy land or facilities. The offeror shall detail the existing facilities that are available for the pilot Institute, as well as existing additive manufacturing and supporting (materials characterization, testing) equipment. Equipment proposed for purchase under this award cannot be for a general purpose, but must be special purpose equipment for additive manufacturing, adapted for the unique needs of the Institute, or in direct support of the mission of the Institute.

The Additive Manufacturing Innovation Institute shall:

- Physically and/or virtually have access to all relevant manufacturing technologies including fabrication design tools, processing tools, test and evaluation equipment, and the necessary expertise to maintain these assets
- House centrally, openly accessible capabilities to support advances in manufacturing (housed in one or more facilities) through development, demonstration and evaluation of product and process technologies
- Have the capability to run (physically and virtually) various processing scenarios to determine the optimal set of tools for a variety of part configurations and to provide the user with performance/schedule/cost analysis on each of the different potential manufacturing pathways
- Facilitate the development, integration, evaluation, and exploitation of efficient/rapid/flexible manufacturing technologies

Proposals received shall describe the facilities and equipment currently available and the new capabilities to include specialized equipment required to meet the objectives of the pilot Institute.

Integrative education, training, and workforce development shall also be part of the Institute. The proposer shall detail how the Institute will foster active partnerships between education and industry as well as involving industry associations, professional societies, and economic development entities in these educational efforts. The Institute shall house rigorous educational programs that delineate career pathways with multiple entry and exit points for students and incumbent workers. The educational programs shall develop a high-quality manufacturing workforce with a strong focus on the entry-level technician. Undergraduate research experiences, industry internships, and apprentice programs should be integrated within the programs. Secondary schools, community and technical colleges, and 4-yr institutions should all participate in the Institute with a strong emphasis on community and technical colleges in preparing the manufacturing technician workforce. The Institute business plan should describe how the educational programs will be sustained. Programs that inform and provide professional development for teachers and faculty are encouraged.

5) Personnel. The offeror shall provide resumes of all key personnel (include key subrecipient/consultant personnel). The key technical personnel shall have strong technical expertise in the field of additive manufacturing (at least 5 years of experience). Business development, organizational leadership, and financial management expertise are also necessary to support a successful Institute. In addition, the proposal shall detail sufficient staffing and access to designers and manufacturing engineers/experts, product testers/evaluators and personnel with analytical skills to guide users in the design and development of new manufacturing processes, maintain the infrastructure, and provide hands-on training.

6) Schedule. The offeror shall propose a schedule for the establishment of the Institute, including dates to determine and launch applied research projects and educational and training programs. The period of performance is **thirty (30) months + three (3) months** for final report processing.

Part B: Applied Research. Additive manufacturing is of strong interest to the DoD, DOE, and other participating civilian agencies and is ripe with potential for technology transition. This NNMI pilot Institute will help to address warfighter requirements and enhance U.S. manufacturing capabilities at the best value for the taxpayer that have relevance in both the military and commercial sectors and will transition advanced manufacturing technology into the DoD and commercial supply chains. Applied research will consist of proposed research projects which may be gathered from the most promising basic research activities. Within this section of the proposal, the offeror shall propose three (3) applied research project initiatives to be performed by the proposed Institute that address the technical focus area of additive manufacturing. NOTE: The three example applied research projects proposed may or may not be initiated upon award of the institute, but will be

used to evaluate the proposer's ability to generate research projects with technical depth, transition potential, and diverse teaming. It is anticipated that applied research projects shall be determined through the process proposed within the management structure section of the proposed business plan.

Part C: Cost

Proposals shall include:

- Detailed cost information by cost element (Government funds and any cost shared portion), broken out by fiscal year and purpose (labor, travel, equipment, materials, etc.) (see Time Phased Cost Proposal Sample under Appendix II)
- Identification of funding source(s) (state/local government, industry, etc.) for the desired 50/50 cost share

Cost share includes cash and in-kind contributions. Cash contributions represent the recipient's cash outlay, including the outlay of money contributed to the recipient by non-Federal third parties. Cash contributions are outlays of funds to support the total project through acquiring material, equipment, labor and other cash outlays in direct support of the Statement of Work. In-kind contributions represent the non-cash contributions provided by the recipient and non-Federal third parties and may take the form of real property and non-expendable personal property, and the value of goods or services directly benefiting and specifically identifiable to the program. Third party funding should not originate from Federal funding. Private sector funding will be most advantageous, as the most viable route for sustainability of the Institute will be through technology transition through industry.

2. Deliverable Items:

- 1)** Recipient Billing Voucher (Quarterly)
- 2)** Funds and Manhour Expenditure Report (Quarterly)
- 3)** Recipient Progress, Status, and Management Report (Quarterly)
- 4)** Presentations from Program Reviews (Semi-annually)
- 5)** Strategic Business and Marketing Plan (Six months after award, then annually)
- 6)** Final Report (at the conclusion of the project)

3. Future Phases: If the program necessitates additional work and if Government funding is available, it is anticipated that future phases may result for any award resulting from this BAA.

4. Other Requirements:

- 1) Program security classification: Unclassified
- 2) Export Control: Export Control (International Traffic in Arms Regulation (ITAR) 22 CFR 120-131, or Export Administration Regulations (EAR) 15 CFR 710-774) do not apply to the overall Institute. However, Export Control may apply to individual applied research projects, depending on the nature of the research tasks. If an applied research project is subject to export control, then Certified DD Form 2345, Military Critical Technical Data Agreement, will be required to be submitted with the proposal, reference BAA-12-17-PKM.

Export-Controlled Items: As prescribed by DFARS 204.7303, DFARS 252.204-7008, "Export-Controlled Item (APR 2010)" is contained in this solicitation (as shown below). This clause shall be contained in ALL solicitations and resulting awards.

EXPORT-CONTROLLED ITEMS (APR 2010)

(a) *Definition.* "Export-controlled items," as used in this clause, means items subject to the Export Administration Regulations (EAR) (15 CFR Parts 730-774) or the International Traffic in Arms Regulations (ITAR) (22 CFR Parts 120-130). The term includes:

(1) "Defense items," defined in the Arms Export Control Act, 22 U.S.C. 2778(j)(4)(A), as defense articles, defense services, and related technical data, and further defined in the ITAR, 22 CFR Part 120.

(2) "Items," defined in the EAR as "commodities", "software", and "technology," terms that are also defined in the EAR, 15 CFR 772.1.

(b) The Contractor shall comply with all applicable laws and regulations regarding export-controlled items, including, but not limited to, the requirement for contractors to register with the Department of State in accordance with the ITAR. The Contractor shall consult with the Department of State regarding any questions relating to compliance with the ITAR and shall consult with the Department of Commerce regarding any questions relating to compliance with the EAR.

(c) The Contractor's responsibility to comply with all applicable laws and regulations regarding export-controlled items exists independent of, and is not established or limited by, the information provided by this clause.

(d) Nothing in the terms of this contract adds, changes, supersedes, or waives any of the requirements of applicable Federal laws, Executive orders, and regulations, including but not limited to—

(1) The Export Administration Act of 1979, as amended (50 U.S.C. App.2401, *et seq.*);

(2) The Arms Export Control Act (22 U.S.C. 2751, *et seq.*);

(3) The International Emergency Economic Powers Act (50 U.S.C. 1701, *et seq.*);

(4) The Export Administration Regulations (15 CFR Parts 730-774);

(5) The International Traffic in Arms Regulations (22 CFR Parts 120-130); and

(6) Executive Order 13222, as extended;

(e) The Contractor shall include the substance of this clause, including this paragraph (e), in all subcontracts.

(End of clause)

5. Government Furnished Property (GFP) availability: GFP is not anticipated to be made available under any resulting award.

6. Data Rights Desired:

- 1) Technical Data:** Government Purpose Rights
- 2) Non-Commercial Software (NCS):** Government Purpose Rights
- 3) NCS Documentation:** Government Purpose Rights
- 4) Commercial Computer Software Rights:** Customary License

The term Government Purpose Rights in technical data is defined in DFARS 252.227-7013, and means the right to:

- Use, modify, reproduce, release, perform, display, or disclose technical data within the Government without restriction; and
- Release or disclose technical data outside the Government and authorize persons to whom release or disclosure has been made to use, modify, reproduce, release, perform, display, or disclose that data for United States government purposes.

The term Government Purpose Rights in noncommercial computer software and noncommercial software documentation are defined in DFARS 252.227-7014. The term Commercial Computer Software is as defined in DFARS 252.227-7014.

II. Award Information

The Government intends to award a Department of Defense Grant and Agreement Regulations (DoDGARs)-based specific Cooperative Agreement under 10 USC 2358 and the Government reserves the right to award other agreements. The DoDGARs is available for review at <http://www.dtic.mil/whs/directives/corres/pdf/321006r32p.pdf>. A sample Cooperative Agreement is available at Appendix III to this BAA.

- 1. Anticipated Award Date: 15 August 2012** Agreement award is anticipated no earlier than two months after receipt of proposals.
- 2. Anticipated funding for the program:**
 - 1)** FY12/\$18.8M; FY13/\$4.0; FY14/\$7.2M; Total: \$30.0M, which is strongly desired to have cost share applied at a rate of 50/50.
 - 2)** *This funding profile is an estimate only and is subject to change due to Government discretion and availability.*
- 3. Number of awards anticipated:** The Air Force reserves the right to make a single award or no awards as a result of this BAA. We anticipate making only one award.

III. Eligibility Information

- 1. Eligible Offeror: This is a restricted solicitation limited to a non-profit [501(c)(3) designated] organization. If a university is the proposed recipient, a partnership shall also be proposed with a cluster of manufacturing firms and associated institutes. If a non-profit industry consortium is proposed, a partnership shall be proposed to engage universities for applied research. Small businesses are encouraged to propose on all or any part of this solicitation, as part of a teaming arrangement.**
- 2. Cost Sharing or Matching:** Cost Sharing is strongly desired in the amount of 50% Recipient and 50% Government. State and local funding (not originating from Federal funds) will be considered, as well as private sector investment. Cost sharing includes in-kind such as equipment, facilities, and manpower.

3. Federally Funded Research and Development Centers: The following guidance is provided for Federally Funded Research and Development Centers (FFRDCs) contemplating submitting a proposal, as either a prime or subcontractor, against this BAA. FAR 35.017-1(c)(4) prohibits an FFRDC from competing with any non-FFRDC concern in response to a Federal agency request for proposal for other than the operation of an FFRDC (with exceptions stated in DFARS 235.017-1(c)(4)). There is no regulation prohibiting an FFRDC from responding to a solicitation. However, the FFRDC's sponsoring agency must first make a determination that the effort being proposed falls within the purpose, mission, general scope of effort, or special competency of the FFRDC, and that determination must be included in the FFRDC's proposal. In addition, the non-sponsoring agency (in this case AFRL) must make a determination that the work proposed would not place the FFRDC in direct competition with domestic private industry. Only after these determinations are made would a determination be made concerning the FFRDC's eligibility to receive an award.

4. Other:

1) Foreign participation: The recipient shall be a domestic source, which means that the Institute must be registered as a U.S. organization. However, participants which utilize the Institute may be foreign entities when activities are determined not to contain or generate ITAR information. Foreign participation in applied research projects will be addressed on a case-by-case basis and measures will be taken to properly protect Export Control information.

Some projects within the Institute may be subject to export control laws and regulations. In these cases, only contractors who are registered and certified with the Defense Logistics Services Center (DLSC) shall be provided copies of data subject to foreign disclosure restrictions. Contact the Defense Logistics Services Center, 74 Washington Avenue N., Battle Creek, Michigan 40917-3084 (1-800-352-3572) for further information on the certification process. You must submit a copy of your approved DD Form 2345, Military Critical Technical Data Agreement, with your proposal against the BAA, if proposed example applied research projects would be subject to foreign disclosure restrictions.

2) Offerors may be ineligible for award if all requirements of this BAA are not met as of the specified proposal due date set forth in above Section II.1.

- 3) Offerors are advised that one and only one proposal may be submitted, but proposed subrecipients or formal collaborators may team on multiple proposals.**

IV. Proposal and Submission Information

1. Overview: Proposals submitted shall be in accordance with this announcement. *There will be no other solicitation issued in regard to this requirement.* Offerors should be alert for any BAA amendments that may permit extensions to the proposal submission date. There is no additional information to be provided.

2. Proposals for Grants and Cooperative Agreements

1) Grant Opportunity: Go to <http://Grants.Gov> to find the grant opportunity. The initial screen will provide the synopsis for that specific grant opportunity. To view the entire opportunity open the "Full Announcement" box in the upper center of the synopsis page and select from the documents available under "Announcement Group." NOTE: <http://Grants.Gov> has tools and guiding documents in the left margin under "Applicant Resources" to help you find and apply for grant opportunities. Grants.gov requires Adobe Reader version 8.13 to open, download, save, and submit an application electronically. Adobe Reader version 8.13 is available for free from Grants.gov under "Applicant Resources," "Download Software." **You must notify your contracting POC before the stated proposal due date and time of this notice if you decide to submit your proposal electronically or your proposal will not be considered.**

2) Proposal Cover Page – SF 424 (R&R) Form: All proposals for grants or assistance, whether submitted electronically or in hard copy must include an SF 424 (R&R) as the cover page. The SF 424 (R&R) should be downloaded from the "Application" box in the upper right hand corner of the synopsis page. Click on "download" under the column "Instructions and Application." Select "Download Application Package" and complete the SF 424 (R&R).

3) Certifications: To access the requisite Certifications, select the "Application" box in upper right hand corner of the synopsis page. Click on "Instructions and Application" and select "Download Application Instructions" to view the Certifications. To complete the Certifications you must check Block 18 of the SF 424 (R&R), and by signing it (either by pressing the "submit" button for Grants.gov or by hand if submitting it in hard copy), you are certifying that you have read and agree to abide by the terms in the Certifications. You do not need to submit any additional

documentation unless you have lobbying activities to disclose on an SF – LLL.

4) Proposals for Grants or Assistance Instruments: Proposals for grants or assistance instruments may be submitted either (1) directly with a hard copy to the AFRL/Det 1 contracting POC listed in this announcement or (2) electronically through the Grants.gov government-wide electronic portal. **You must notify your contracting POC before the stated proposal due date and time of this notice if you decide to submit your proposal electronically or your proposal will not be considered.**

5) For Hard Copy Submission: The original proposal and the number of copies specified in this announcement must be delivered directly to the contracting POC in AFRL Det 1 at the time and date specified in this announcement.

6) For Electronic Submission:

a) Advance Preparation – Electronic proposals must be submitted through Grants.gov. There are several one-time actions your organization must have completed. Long before the proposal submission deadline, you should verify that the persons authorized to submit proposals for your organization have completed these actions. If not, it may take them up to **21 days** to complete the actions before they will be able to submit proposals.

b) Electronic Submission Process: The process your organization must complete includes obtaining a Dun and Bradstreet Data Universal Numbering System (DUNS) number, registering with the Central Contract Registry (CCR), registering with the credential provider, and registering with Grants.gov. Designating an E-Business Point of Contact (EBiz POC) and obtaining a special password called MPIN are important steps in the registration process. Go to: http://www.grants.gov/applicants/get_registered.jsp

c) Your organization's E-Business POC, identified during CCR Registration, must authorize someone to become an Authorized Organization Representative (AOR). This safeguards your organization from individuals who may attempt to submit proposals without permission. *Note: In some organizations, a person may serve as both an E-Business POC and an AOR.*

d) The Grants.gov Organization Registration Checklist is located at <http://www.grants.gov/assets/OrganizationRegCheck.pdf> to guide you through the process.

- e) If a proposal is submitted through Grants.gov, Adobe Reader version 8.13 or later will need to be downloaded. This small, free program will allow you to access, complete, and submit applications electronically and securely. Reference IV.2.1 above for instructions on how to obtain a free version of the software.
- f) Should you have questions relating to the registration process, system requirements, how an application form works or the submittal process, call Grants.gov at 1-800-518-4726 or support@Grants.gov.

7) Submitting the Electronic Proposal

- a) Application forms and instructions are available at Grants.gov. To access these materials, go to <http://grants.gov>. Select "Apply for Grant", and then select "Download Application Package". Enter the CFDA number (typically 12.800). You should also enter the BAA number, and then follow the prompts to download the application package.
- b) The applicant will receive a confirmation page upon completing the submission to Grants.gov. This confirmation page is a record of the time and date stamp that is used to determine whether the proposal was submitted by the deadline. A proposal received after the deadline is "late" and will not be considered for an award.

8) Future Broad Agency Announcements for basic research that may result in grants or assistance instruments issued by this office will invite electronic proposal submission through the Grants.gov government-wide portal.

9) Section 3 below "Content and Form of Proposal Submission" applies to grants and cooperative agreement (in hard copy or electronic) and contract proposals.

3. Content and Form of Proposal Submission: The paragraphs below identify proposal format and content. Proposals should be addressed via mail to the contracting Point of Contact (POC) identified in Section VII.

1) General Instructions: Offerors should apply the restrictive notice prescribed in the provision of FAR 52.215-1(e) Instructions to Offerors—Competitive Acquisition. Offerors should consider proposal instructions contained in the Broad Agency Announcement (BAA) Guide for Industry, which can be accessed on line at <http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=9218>. This guide is specifically designed to assist the offeror in understanding the

BAA proposal process. The proposal submittal shall include three distinctly separate sections as follows:

PART A: Institute Structure to include the following:

Business Plan
Technical Plan/Scope
Technology Transition
Infrastructure
Education and Workforce Training Plan
Personnel
Schedule
Statement of Work

PART B: Applied Research Project Examples

Example Project #1
Example Project #2
Example Project #3

PART C: Cost Proposal (to include both PART A: Institute Structure and PART B: Applied Research Project Examples)

The proposal must be valid for 180 days. Proposals must reference the announcement number BAA-12-17-PKM. **Offerors must submit one original, five paper copies, and two electronic copies of their proposals to the contracting POC.** Each electronic copy must be submitted on one Compact Disk (CD), and the file format must be readable by Microsoft Word 2000. **No proposals sent by fax or e-mail will be accepted.** *Offerors are advised that only Contracting Officers are legally authorized to contractually bind or otherwise commit the government.* The cost of preparing proposals in response to this BAA is not considered an allowable direct charge to any resulting or any other contract; however, they may be considered allowable expenses to the normal bid and proposal indirect cost as specified in FAR 31.205-18.

- 2) Cover Page:** The cover page should include the BAA number BAA-12-17-PKM, BAA title of "Additive Manufacturing Innovation Institute" as well as the names for the principal points of contact (both technical and contractual), and any other information that identifies the proposal. The cover page should also contain the proprietary data disclosure statement, if applicable. However, it is noted that the Statement of Work portion of the Technical Proposal shall be formatted so that it is absent of any proprietary data and therefore fully incorporable into a resulting award and releasable pursuant to Freedom of Information Act requirements.

3) Table of Contents: Include a Table of Contents immediately following the cover page.

4) Technical Proposal:

- a) The offerors shall propose an Institute structure with individual research projects under a cooperative agreement. There shall be two parts to the technical proposal:

Part A: Institute Structure, which will include the structure of the Additive Manufacturing Innovation Institute

Part B: Applied Research Project Examples, which will include the descriptions of example applied research projects

- b) Part A of the proposal should include a SOW (5 page limit) based on the "Statement of Objective/Needs" and the "Project Needs/Requirements" sections contained in Section I. Program Description of this announcement. Part B of the proposal should include a SOW for each proposed research project (1 page limit). Each SOW shall detail the technical tasks proposed to be accomplished and shall be suitable for contract incorporation. ***Do not include any proprietary information in the Statements of Work.*** Offerors must propose on both Parts A and B.
- c) Page Limitations: The following describes the page limitations on the proposal submittal:

- i. Proposal shall be limited to **50 pages (excluding the cost proposal)**, prepared and submitted in Word format, and broken out as follows:

PART A: Institute Structure (35 page limit)

PART B: Applied Research Project Examples (15 page limit, 5 pages for each project)

- ii. Note that the table of contents and the cover page will not be included in the page count referenced above.
- iii. Font shall be standard 12-point business font Arial.
- iv. Character spacing must be "normal," not condensed in any manner.
- v. Pages shall be double-spaced, single-sided, 8.5 by 11 inches, with at least one-inch margins on both sides, top

and bottom. Lines between text lines must also be 12-point.

- vi. All text, including text in tables and charts, must adhere to all font size and line spacing requirements listed herein. Font and line spacing requirements do not have to be followed for illustrations, flowcharts, drawings, and diagrams. These exceptions shall not be used to circumvent formatting requirements and page count limitations by including lengthy narratives in such items.
 - vii. Pages shall be numbered, not to include the cover page and the Table of Contents, beginning with Page 1, and the last page being Page 50. The page limitation covers all information including indices, photographs, foldouts (counted as 1 page for each 8.5 by 11 portion) tables, and charts.
 - viii. Resumes of key personnel may be included as attachments and do not contribute to the page count limitations.
 - ix. The proposal page limit includes the offeror's proposed Statement of Work (SOW). In addition, **the SOW shall not exceed 5 pages** of the 50-page limitation.
 - x. Two CDs with the WORD version of the Technical Proposal must be submitted with the hard copies of the proposal and must match the hard copy.
 - xi. **Due to continuing attempts by numerous offerors to obtain an unfair advantage by failing to conform to the formatting rules above, the Government will check the proposal and SOW for conformance to the stated requirements.** This volume shall include a SOW detailing the technical tasks proposed to be accomplished under the proposed effort and suitable for contract incorporation. ***Do not include any proprietary information in the SOW.*** Refer to the BAA Guide for Industry referenced above to assist in SOW preparation. **Any pages in excess of the stated page limitation after the format check will not be considered. In addition, if the proposal and SOW does not conform to the above requirements, a notification will be sent to the offeror to advise of the nonconformance.**
- d) Technical Discussion and Information: The proposal shall include a discussion of the nature and scope of the research and the technical approach. Additional information on prior work in this area, descriptions of available equipment, data and facilities and

resumes of personnel who will be participating in this effort should also be included as attachments to the technical proposal.

- 5) Cost Proposal:** Separate the proposal into a Terms and Conditions section and Cost section. The Terms and Conditions section should contain any exceptions to the cooperative agreement or requirements language. Provide rationale for exceptions. If cost share is proposed, letters of commitment should be provided within the cost proposal.

Cost proposals have no page limitations; however, offerors are requested to keep cost proposals to 100 pages as a goal. Refer to the BAA Guide for Industry for detailed proposal instructions. The cost proposal may be provided in Microsoft formats such as Excel, Word, PowerPoint, etc. It is requested that all documents within the cost proposal be provided with a Font size of no less than 10.

- 6) Proposal Content Summary:** You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date. Reference Section VIII for a Checklist of the requirements.

- 4. Proposal Due Date and Time: 14 June 2012, 3:00 P.M. EST. NOTE: Proposal receipt after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3).**

NOTE: Intent to Propose: Offerors that anticipate submitting a proposal are requested to submit an e-mail to **Ms. Dawn Ross** at NNMI2012@wpafb.af.mil containing the name of the offering organization, the POC, and the statement of intent to submit a proposal. This "Intent to Propose" is requested by **31 May 2012, 3:00 p.m. EST.** The submission of an "Intent to Propose" is not a prerequisite for proposal submission.

- 5. Intergovernmental Review:** There will be a government-only multi-agency technical review team evaluating submitted proposals.
- 6. Funding Restrictions:** Government funding must be used in direct support of the goals of the pilot Institute, for applied research, education and training programs, and infrastructure development.
- 7. Other Submission Requirements:** Proposals must be submitted to: **Ms. Dawn Ross, Det 1 AFRL/PKDB**, Bldg 167, 2310 8th St., Wright-Patterson AFB, OH 45433-7801.

V. Proposal Review Information

- 1. Evaluation Criteria:** The selection of a source for the Additive Manufacturing Innovation Institute will be based on an evaluation of each

proposal to determine the overall merit of the proposal in response to the announcement, as well as on Agency need and funding availability.

The following criteria are listed below and segregated as Technical criteria and Cost/Price criteria. Cost/Price is a substantial factor, but ranked as the second order of priority after Technical factors. Within the Technical criteria section, the criteria are listed in a ranked order of descending priority. For example, 1) Business Plan is most important followed closely by 2) Technical Plan/Scope. All criteria need to be addressed within the proposal. Bullets further describing each criterion are of equivalent importance.

A. TECHNICAL

1) Business Plan

- Viability of the plan for the pilot Institute to be financially self-sustainable within a 5-year period
- Quality and extent of the desired 50/50 cost share in terms of the source of the cost share, and the quality/applicability of any in-kind cost share to the operation of the Institute
- Completeness and quality of the plan for the proposed management structure of the Institute, including the level and role of academic and industry participation
- Soundness of the overall infrastructure concept proposed within existing facilities, including quality, capabilities, and availability of existing and proposed equipment
- Uniqueness and creativity of the strategy for innovation and technology dissemination
- Soundness of plan for protecting and maintaining intellectual property
- Relevance and U.S. economic impact (job creation, spin-off companies) of technology transition for commercial applications
- Risk analysis and mitigation plan

2) Technical Plan/Scope

- Innovativeness and technical merit of proposed technical plan
- Relevance and impact of technology transition to multiple DoD and DOE applications:
 - Reduced unit cost, improved lead times, enhanced performance
 - Impact on reducing life-cycle energy cost for energy efficiency and renewable energy
- Soundness of approach for the example applied research projects
 - Technical understanding of problem
 - Innovativeness and soundness of technical plan

- Relevance and knowledge of project importance (extent of understanding industry needs)
- Soundness of proposed transition pathway

3) Education and Workforce Training Plan

- Degree of integration of educational and training components throughout the Business and Technical Plans
- Evidence of a plan to establish career pathways that encompass secondary, 2-4 year and graduate-level institutions
- Quality and extent of plan to emphasize community and technical colleges role in preparing the manufacturing technician workforce
- Evidence of integration of research and development experience and activities for students at all levels
- Soundness of plan to involve secondary teachers and faculty in relevant professional development experiences

4) Quality and Availability of Personnel

- Technical expertise in additive manufacturing
- Business development, transition, and commercialization expertise

B. COST/PRICE

Reasonableness and realism of the proposed cost, proposed cost share (if applicable), fee (if applicable), and consideration of proposed budgets and funding profiles. Cost Realism Analysis will ensure proposed cost:

- Is realistic for work to be performed
- Reflects a clear understanding of the requirements
- Is consistent with the unique methods of performance and material described in offeror's technical proposals

C. RISK ASSESSMENT

Degree to which the proposed activities are achievable within the schedule proposed

2. Review and Selection Process. A preliminary review will be performed to check for proposal completeness, eligibility requirements, and conformation to page limitations.

1) Categories: The technical and cost proposals will be evaluated at the same time and categorized as follows:

- a) **Category I:** Proposal is well conceived, scientifically and technically sound, pertinent to the program goals and objectives, and offered by a responsible offeror with the competent scientific and technical staff and supporting resources needed to ensure satisfactory program results. Proposals in Category I are determined to be acceptable, but will be recommended for award based on availability of funds. They are normally displaced only by other Category I proposals.
 - b) **Category II:** Proposal is scientifically or technically sound, but requires further development, and may be recommended for award, but at a lower priority than Category I.
 - c) **Category III:** Proposal is not technically sound or does not meet agency needs.
- 2) No other evaluation criteria will be used. The Air Force contracting officer reserves the right to select for award any, all, part, or none of each proposal received.

VI. Award Administration Information

1. **Award Notices:** Offerors will be notified whether their proposal is *recommended for award*, by letter or e-mail, on or about **1 July 2012**. The notification is not to be construed to mean that an award is assured, as availability of funds and successful negotiations are prerequisites to any award.
2. **Administrative Requirements:** See Section I.

VII. Agency Contacts

1. **Address contracting questions to the Contracting POC:** *Ms. Dawn Ross or Mr Anthony Everidge, Det 1 AFRL/PKDB, Bldg 167, 2310 8th St., Wright-Patterson AFB, OH 45433-7801 NNMI2012@wpafb.af.mil*
2. **Address technical questions to the Technical POC:** *Dr. Jennifer Fielding, AFRL/RXMT, Bldg 653, 2977 Hobson Way, Wright-Patterson AFB, OH 45433, NNMI2012@wpafb.af.mil*

VIII. Other Information

1. **Wide Area Work Flow:** NOTICE: Any Cooperative Agreement award resulting from this solicitation will contain the clause at DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports (Mar 2008), which requires electronic submission of all payment requests. The clause cites three possible electronic formats through which to submit electronic payment requests. Pursuant to that clause, the Department of Defense is adopting Wide Area Work Flow-Receipt and Acceptance (WAWF-

RA). Any Cooperative Agreement resulting from this solicitation will establish a requirement to use WAWF-RA for invoicing and receipt/acceptance and will provide coding instructions applicable to this contract. Awardees are encouraged to take advantage of available training (both web-based and through your local DCMA office) and to register in the WAWF-RA system. Information regarding WAWF-RA, including the web-based training and registration, can be found at <https://wawf.eb.mil>. Note: This WAWF-RA requirement does not apply to universities that are audited by an agency other than DCAA.

- 2. Ombudsman:** The Ombudsman clause, AFFARS 5352.201-9101 Ombudsman (Aug 2005), will be contained in any agreements resulting from this solicitation. The AFRL Ombudsman is Barbara G. Gehrs, Director of Contracting, AFRL/PK, (937) 904-4407, Barbara.Gehrs@wpafb.af.mil.
- 3. Post-Award Small Business Program Representation:** As prescribed in FAR 19.308, FAR Clause 52.219-28, "Post-Award Small Business Program Rerepresentation (Apr 2009)," is incorporated by reference in this solicitation. This clause will be contained in any agreements resulting from this solicitation. This clause requires an awardee to rerepresent its size status when certain conditions apply. The clause provides detail on when the rerepresentation must be complete and what the awardee must do when a rerepresentation is required.
- 4. Employment Eligibility Verification:** As prescribed by FAR 22.1803, FAR Clause 52.222-54, "Employment Eligibility Verification (Jan 2009)," is hereby incorporated by reference in this solicitation. Any agreement awarded as a result of this BAA that is above the Simplified Acquisition Threshold, and contains a period of performance greater than 120 days, shall include this clause in its agreement. This clause provides the requirement of awardees to enroll as a Federal Contractor in the E-Verify program within 30 days after contract award.
- 5. Reporting Executive Compensation and First-Tier Sub-recipient Awards:** Any grant or agreement award resulting from this announcement may contain the award term set forth in *2 CFR, Appendix A to Part 25* <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=c55a4687d6faa13b137a26d0eb436edb&rqn=div5&view=text&node=2:1.1.1.4.1&idno=2#2:1.1.1.4.1.2.1.1>.
- 6. Updates of Publicly Available Information Regarding Responsibility Matters:** Any assistance award that exceeds \$500,000.00; and when an offeror checked "has" in paragraph (b) of the provision 52.209-7, shall contain the clause/article, 52.209-9, "Updates of Publicly Available Information Regarding Responsibility Matters (Jan 2011)."
- 7. Contractor Business Systems:** DFARS 252.242-7005, Contractor Business Systems, is hereby incorporated by reference.

8. Proposal Content Checklist: You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date.

- 1)** Proposals are due to the contracting POC.
- 2)** Proposals are due no later than the due date and time specified in this announcement.
- 3)** Proposal page limits are strictly enforced. See Section IV. of this solicitation for page limits.
- 4)** Completed Certifications and Representations are due with the proposal.
- 5)** The Cost Proposal must contain all information described in the Content and Form of Proposal Section.
- 6)** For any subrecipients proposed, the Cost Proposal must contain a subcontractor analysis IAW FAR 15.404-3(b).
- 7)** The Cost Proposal must contain any exceptions to the sample Model Contract Terms and Conditions. (See <http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=6790> for sample model contracts.) However, be advised that the document awarded may include contract line items (CLINs)/clauses/articles in addition to those in the models and/or some of the CLIN/clauses/articles in the models may be deleted, depending on the specific circumstances of the individual program. Any additions or deletions will be discussed with the offeror prior to award of the document.
- 8)** Proposals must be submitted in the format specified in Section IV.
- 9)** Offerors who have Forward Pricing Rate Agreements (FPRAs) and Forward Pricing Rate Recommendations (FPRRs) should submit them with their proposal.
- 10)** If a DD Form 254 is applicable, offerors must verify their Cognizant Security Office information is current with Defense Security Service (DSS) at www.dss.mil.
- 11)** If effort is subject to export control, offerors must submit a Certified DD Form 2345, Militarily Critical Technical Data Agreement, with proposal.

APPENDICES

- I. Representations and Certifications
- II. Time Phased Cost Proposal Sample
- III. Sample Cooperative Agreement