

# 1-Step Funding Opportunity Announcement

## Overview Information

To access hyperlinks from this electronic solicitation – Hit CTRL and click on the link.

**NAICS Code:** The NAICS Code for this acquisition is **336415** (Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing) and the small business standard is 1250 employees.

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

**Funding Opportunity Announcement (FOA) Title:** *Defense Production Act (DPA) Title III Space Industrial Base (SIB) Next Generation Reaction Wheels (NGRWs) Project*

[Additional information on the Defense Production Act Title III:](#)

This announcement is to solicit production technology project proposals for the Defense Production Act (DPA) Title III Program managed by the Office of the Secretary of Defense (OSD) and executed by the Department of Defense (DoD), DPA Title III Executive Agent Program Office, a component of the Manufacturing & Industrial Technologies Division (AFRL/RXM) of the Materials and Manufacturing Directorate, Air Force Research Laboratory (<https://www.businessdefense.gov/Programs/DPA-Title-III/>). As the Executive Agent for DoD's DPA Title III Program, the Air Force is responsible for executing programs that ensure domestic production capability for technology items that are essential to national defense.

Title III of the Defense Production Act (DPA) provides unique authorities, under which the United States Government (heretofore referred to as the "Government" or "USG") may provide appropriate incentives to create, maintain, protect, expand, or restore the productive capacities of domestic sources (see below for definition) for critical components, critical technology items, and industrial resources essential for the execution of the national security strategy of the United States. The principal objective of all DPA Title III investments is to strengthen and expand these domestic productive capacities and to ensure Government access to critical technology items well into the future. Any agreements awarded under this FOA will be awarded under the authority of Title III of the Defense Production Act of 1950 as amended (50 U.S.C. App. § 2061 et seq.).

Each DPA Title III Program effort will provide incentives to domestic manufacturers to create, maintain, protect, expand, or restore their critical production technologies and to develop and/or adopt best business and marketing practices to

achieve joint manufacturing capacity, quality, affordability, and economic viability requirements.

Solicitations shall be restricted to domestic sources as defined in the Defense Production Act of 1950: "A business concern that performs in the United States or Canada substantially all of the research and development, engineering, manufacturing, and production activities required of such business concern under a contract with the United States relating to a critical component or a critical technology item; and that procures from business concerns (described as above) substantially all of any components and assemblies required under a contract with the United States relating to a critical component or critical technology item." Territories and Protectorates of the United States, and the District of Columbia are considered part of the domestic United States.

Proposals should be addressed to the Contracting Point of Contact (POC) stated on page four of this announcement.

**Funding Opportunity Announcement Type (FOA):** This is an Initial Announcement

**Funding Opportunity Announcement Number:** FA8650-19-S-5015

**Catalog of Federal Domestic Assistance (CFDA) Number(s):** 12.800 Air Force Defense Research Sciences Program

**Intent to Propose:** Offerors that anticipate submitting a proposal are requested to submit an e-mail to Mr. Timothy R. Kramer, Agreements Negotiator, at [timothy.kramer.5@us.af.mil](mailto:timothy.kramer.5@us.af.mil) containing the name of the recipient, the POC, and the recipient's intent to submit a proposal. This "Intent to Propose" is requested by **Monday, 18 Feb 2019, 2:00 p.m. Local Time.**

**Proposal Due Date and Time:** **Friday, 22 Mar 2019, 2:00 p.m. Local Time.**

**NOTE:** Any proposal, modification or revision received at the Government Office designated in this FOA after the exact time specified for receipt of offers is "late" and will not be considered except at the Agreement Officer's (AO) discretion. 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. *Be advised, if the U.S. Postal Service is used, this building only receives U.S. Postal Mail twice a week and delivery by that means may not meet the proposal due date and time established herein.* Early proposal submission is encouraged.

**Submission:** Proposals must be submitted to the Contracting Point of Contact (POC): Timothy R. Kramer, Agreements Negotiator, AFRL/RQKMT, 2130 8th Street (Building 45), Wright-Patterson AFB, OH 45433-7541, [timothy.kramer.5@us.af.mil](mailto:timothy.kramer.5@us.af.mil), (937) 713-9886.

**Solicitation Request:** Air Force Research Laboratory, AFRL/RXME, Materials and Manufacturing Directorate, Wright Research Site, is soliciting technical and cost proposals on the research effort described below.

**System for Award Management (SAM) Registration:** SAM is the primary Government repository for prospective federal awardee information and the centralized Government system for certain contracting, grants, and other assistance related processes. It replaces CCR/FedReg, On-line Representations and Certifications (ORCA) and the Excluded Parties Lists System (EPLS). Offerors shall be registered in the SAM database prior to submitting a proposal. Any awardee must remain registered during the entire project life, including invoice submission and through final payment of any agreement resulting from this FOA. Offerors may obtain information on registration and annual confirmation requirements via the SAM accessed through <https://www.acquisition.gov> or by calling 866-606-8220.

**Federal Awardee Performance and Integrity Information System (FAPIIS):** In accordance with 31 U.S.C. 3321 and 41 U.S.C. 2313 the awarding agency is required to review information available through any Office of Management & Budget (OMB)-designated repositories of Government wide eligibility qualification or financial integrity information, such as FAPIIS prior to award.

**Type of Contract/Instrument:** The Air Force intends to award a Department of Defense Grant and Agreement Regulations (DoDGARs)-based Technology Investment Agreement (TIA). However, the Air Force reserves the right to award the instrument best suited to the nature of research proposed.

**Estimated Program Cost:** Total \$12.0M - \$6.0M Government share and \$6.0M Recipient Share

**Anticipated Number of Awards:** The Air Force anticipates awarding up to two (2) awards at \$3M each (plus anticipated cost share) for this announcement. However, the Air Force reserves the right to award zero, one or more agreements for all, some or none of the solicited effort based on the offeror's ability to perform desired work and funding fluctuations.

**Brief Program Summary:** The purpose of this project is to ensure the availability of space qualified Next Generation Reaction Wheels (NGRWs). The goal is to build and start life tests on early production NGRWs that meet specified requirements.

## **Communication Between Prospective Offerors and Government Representatives:**

All questions after the FOA release shall be addressed in writing to Mr. Timothy R. Kramer, Agreements Negotiator, AFRL/RQKMT, [timothy.kramer.5@us.af.mil](mailto:timothy.kramer.5@us.af.mil). After FOA release, questions and answers may be posted if warranted.

Discussions with any of the points of contact shall not constitute a commitment by the Government to subsequently fund or award any proposed effort. Only Contracting/Agreements Officers are legally authorized to commit the Government.

### **Address any questions to:**

Timothy R. Kramer  
Agreements Negotiator  
AFRL/RQKMT  
2130 8th Street, Bldg. 45  
Wright-Patterson AFB, OH 45433-7541  
[timothy.kramer.5@us.af.mil](mailto:timothy.kramer.5@us.af.mil)  
937-713-9886

## **Full Text Announcement**

- I. Program Description:** Air Force Research Laboratory, AFRL/RXM, Materials and Manufacturing Directorate, is soliciting technical and cost proposals on the following research effort: Next Generation Reaction Wheels Project.
  - A. Statement of Objective:** The Statement of Objectives (SOO) for this DPA Title III Effort, Next Generation Reaction Wheels (NGRWs) Project, can be found in Appendix VI of this announcement.
  - B. Within Scope Modifications:** Potential offerors are advised that due to the inherent uncertainty of research and development efforts and the possibility of multiple phases, awards resulting from this announcement may be modified during performance to make within scope changes.
  - C. Deliverable Items:** The project deliverables for this DPA Title III Effort, Next Generation Reaction Wheels (NGRWs) Project, can be found in Appendix VI of this announcement.
  - D. Schedule:** The anticipated period of performance for this award is 48 months total, 45 months for the technical effort and 3 months for submittal of the Final Report.

**E. Other Requirements:**

- 1. Program security classification: Unclassified
- 2. OPSEC: See attached SOO (Appendix VI) for OPSEC guidance.
- 3. Export Control: Information involved in this project **will** be subject to Export Control (International Traffic in Arms Regulation (ITAR) 22 CFR 120-131, or Export Control Administration Regulations (EAR) 15 CFR 710-774). As prescribed by Article 6.031, "Export-Controlled Data Restrictions (APR 2017)" is contained in this solicitation. This article shall be contained in ALL resulting agreements.

**F. Other Information:**

- 1. Government Furnished Property (GFP) is not anticipated to be available.
- 2. Base Support/ Network Access: Not Applicable
- 3. Data Rights Desired:
  - (1) Technical Data: Government Purpose Rights
  - (2) Non-Commercial Software (NCS): N/A
  - (3) NCS Documentation: N/A
  - (4) Commercial Computer Software Rights: N/A

**Data assertions for technologies being proposed with less than unlimited rights should be submitted using the asserted rights table found at DFARS 252.227-7017.**

**II. Award Information**

**A.** The Air Force intends to award a DoDGARs Agreement known as a Technology Investment Agreement (TIA). TIAs are governed by the Department of Defense Grant and Agreement Regulations (DoDGARs) and 2 CFR 200. A sample TIA, along with other sample documents, are attached to this FOA; see Appendix II.

**Any clarifications/exceptions to the TIA articles, as presented in the sample TIA, must be stated at time of proposal submission.**

**a. Anticipated Award Date: Wednesday, 5 Jun 2019**

**b. Anticipated funding:**

<b>Funding Profile</b>	<b>FY13</b>	<b>FY19</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>TOTAL</b>
DPA Title III (Award 1)	\$0.50M	\$0.75M	\$0.875M	\$0.875M			\$3.00M
DPA Title III (Award 2)	\$0.50M	\$0.75M	\$0.875M	\$0.875M			\$3.00M
Recipient Cost Share (Award 1)		TBD	TBD	TBD	TBD	TBD	\$3.00M
Recipient Cost Share (Award 2)		TBD	TBD	TBD	TBD	TBD	\$3.00M

Total Program	\$1.00M	\$1.50M + TBD	\$1.75M + TBD	\$1.75M + TBD	TBD	TBD	\$12.00M
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*This funding profile is an estimate only and not a contractual obligation for funding. All funding is subject to change due to Government discretion and availability. Potential offerors should be aware that due to unanticipated budget fluctuations funding in any or all areas may change with little or no notice.*

**Any concerns regarding this issue may be addressed to the Agreements Negotiator cited above.**

### III. Eligibility Information

**A. Eligible Offeror:** Solicitations shall be restricted to domestic sources as defined in the Defense Production Act.

**B. Propose Cost Sharing or Matching:**

1. The Government is required to seek cost sharing in the amount of 50% Recipient and 50% Government to the maximum extent practicable pursuant to DoDGARs Part 37.215 for TIAs. Cost share other than 50/50 requires preparation and approval of a special waiver. **If the proposal does not include a cost share of at least 50%, provide justification which should address, in detail, factors that demonstrate vested self-interest and/or commitment to the success of the project as discussed in DoDGARs Part 37.215.**
2. Types of Cost Share proposed must be in accordance with DoDGARs 37.530 through 37.555.

**C. Other:**

1. Foreign participation: Not at the prime contractor level.

Foreign Nationals (FNs) can be employed by the US Prime Contractor and/or Sub-Contractor; however, FNs will be limited to Public Domain information unless the contractor has obtained the proper License or Technical Assistance Agreement that authorizes disclosure of CMI and/or CUI to foreign entities pursuant to the Department of State's ITAR or Department of Commerce's EAR.

Public Domain information is defined as information that is releasable to the general public and sometimes referred to as open source material.

Examples include but are not limited to newspapers, magazines and information posted on the internet.

Any proprietary information will have to be appropriately protected.

2. This acquisition involves data that is subject to export control laws and regulations. Only contractors who are registered and certified with the Defense Logistics Services Center (DLSC) and have a legitimate business purpose may participate in this solicitation. 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, Militarily Critical Technical Data Agreement, with your proposal.
3. Offerors are advised that each may submit one and only one proposal as the prime awardee.
4. Offerors may be ineligible for award if all requirements of this FOA are not met on the proposal due date as identified above.

#### **IV. Proposal and Submission Information**

**A. Overview:** Proposals submitted shall be in accordance with this announcement. There will be no other solicitation issued in regard to this requirement. The Government intends to review proposals and award some, all or none of the proposals received for some, all or none of the solicited effort without negotiation/discussion; however, the Government reserves the right to negotiate with those offeror(s) whose proposal is selected for funding.

Offerors should be alert for any FOA amendments that may permit extensions to the proposal submission date.

For additional information, a copy of the Broad Agency Announcement (BAA) Guide for Industry and be found at:

<https://www.wpafb.af.mil/Portals/60/documents/afri/AFRL-broad-agency-announcement-guide.pdf>

This guide is specifically designed to assist the offeror in understanding the BAA proposal process which is similar to the FOA proposal process which does not have its own guide.

#### **B. 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."
  
2. **Proposal Cover Page – SF 424 (R&R) Form:** All proposals for grants or assistance, submitted 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). The SF424 (R&R) can also be found at:  
  
<http://www.grants.gov/web/grants/forms/r-r-family.html#sortby=1>
  
3. **Certifications:** To complete the Certifications you must check Block 18 of the SF 424 (R&R), and by signing it, you are certifying that you have read and agree to abide by the terms in the Certifications. **Also, you must complete and submit with your proposal Appendix I, Title III Certifications and Representations.**
  
4. **Hard Copy Submission:** The original proposal and the number of copies specified in this announcement must be delivered directly to the Agreements Negotiator at the time and date specified in this announcement.

**C. Content and Form of Proposal Submission:** The paragraphs below identify proposal format and content. Proposals should be addressed via mail to the Agreements Negotiator identified on page four of this announcement.

1. **General Instructions:** Offerors should apply the restrictive notice prescribed in the provision of DoDGARs 37.420. Also, Disclosure of Information will be in accordance with DoDGARs 37.420.
  - a. Technical/Management and Cost/Business volumes should be submitted in separate volumes, and **must be valid for 180 days.**

- b. Proposals must reference the announcement number **FA8650-19-S-5015**.
- c. **Offerors must submit one-original and 3 hard copies of their proposals via mail to the Contracting POC, identified on page four of this announcement. NOTE: No proposals sent by fax, Grants.gov online submission, or e-mail will be accepted.**
- d. Offerors must include two (2) CDs in Microsoft WORD Format containing all electronic versions of required submittals (Technical/Management Proposal/SOW/Cost/Business Proposal). All electronic versions must match the hard copies. In case of a discrepancy, the hard copy prevails.
  - (1) Technical/Management proposals and Statements of Work must be provided in Microsoft WORD.
  - (2) The cost file(s) spreadsheets must include the formulas for calculating cost element bases (i.e., G&A, O/H, etc.).
  - (3) The CDs should be labeled with the company name and proposal title.
- e. Offerors are advised that only agreement officers are legally authorized to contractually bind or otherwise commit the Government.
- f. The cost of preparing proposals in response to this FOA is not considered an allowable direct charge to any resulting or any other agreement/contact; however, it may be an allowable expense to the normal bid and proposal indirect cost as specified in DoDGARs 34.17.
- g. No classified technical proposals or cost volumes are expected. Offerors are encouraged to keep all elements of the proposal package unclassified. In the rare case where an offeror has a need to submit a classified appendix, please contact the POC listed on page four of this announcement for delivery instructions.
- h. Cover Page: The cover page should include the FOA number, FOA title as well as the name and telephone number 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.

- i. Table of Contents: Include a Table of Contents immediately following the cover.

## 2. Technical/Management Proposal:

- a. Page Limitations: The following describes the page limitations on the proposal submittal:

Technical Discussion: up to 50 pages (SOW is not included in page count)

Summary Business Plan: up to 25 pages

Statement of Work (SOW): up to 15 pages (not included in technical discussion page count)

**Tech Proposal Total:** up to **90** pages

**Note 1:** The Cost Proposal requirements are provided later in this announcement.

**Note 2:** The Cover Page and Table of Contents will not be included in the page count referenced above.

- (1) Technical Discussion Proposal and Summary Business Plan shall be limited to **75** pages as stated above. Technical Discussion Proposal, Summary Business Plan, and Statement of Work must be prepared and submitted in Microsoft Word format.
  - (a) Font shall be standard 11-point business font Arial.
  - (b) Character spacing must be "normal," not condensed in any manner.
  - (c) Pages shall be double-spaced (must use standard double-space function in Microsoft Word), double-sided (each side counts as one page), 8.5 by 11 inches, with at least one-inch margins on both sides, top and bottom.
  - (d) 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.
  - (e) Pages shall be numbered starting with the cover page being Page 1, and the last page being no greater than Page **76**. The

page limitation covers all information including indices, photographs, foldouts (counted as 1 page for each 8.5 by 11 portion) tables, charts, appendices, attachments, resumes, etc.

- (f) The proposal page limit does not include the offeror's proposed Statement of Work (SOW); however, the same formatting rules apply to the SOW, which is limited to **15** pages.
  - (g) Two (2) CDs with the Microsoft WORD version of your Technical/Management Proposal and the SOW must be submitted with the hard copies of the proposal, and must match the hard copies. In case of a discrepancy, the hard copy prevails.
  - (h) **Please note:–the Government will check the proposal and SOW for conformance to the stated requirements. Any pages in excess of the stated page limitation after the format check will not be considered.**
- b. 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.
- (1) In support of evaluation criterion Manufacturing Capability and Experience, evidence may include, but is not limited to, existing component testing, demonstrations, and/or qualification efforts, existing manufacturing capability, intellectual property, technical specifications for existing components, and dossiers of key personnel.
  - (2) In support of evaluation criterion Quality of Technical Approach, evidence may include, but is not limited to: high value component product/production roadmaps including product qualification plans, value stream maps, equipment specifications, production flow diagrams, process operation plans, and quality control plans (test and inspection plans).
  - (3) This volume shall include a SOW detailing the technical tasks proposed to be accomplished under the proposed effort and suitable for incorporation into the Agreement. **Do not include any proprietary information in the SOW.** Refer to the BAA Guide for Industry referenced above to assist in SOW preparation.

Any questions concerning the technical proposal or SOW preparation shall be referred to the Agreements Negotiator cited in the Overview Information.

### **3. Technical Approach:**

- a. Background/Scope/Program Objectives: The technical proposal must convey an understanding of the problems or limitations of the current state of the technology and the intended application(s). It should be an overall summary of the production technology issues addressed by the offeror's proposal without merely repeating the requirements. This should provide a vision of what will ultimately be achieved, how it will be achieved, and what solution this effort will produce.
- b. Program Plan: The program plan should present an orderly progression of the technical and management efforts to be performed. Upper and lower bounds should be placed on what will be attempted or completed within the confines of program funding. Some redundancy is inevitable, but should be used judiciously to stress key points.
- c. Technical Discussion: In this section, the offeror should provide technical detail and analysis necessary to support the technical approach they are proposing. They must clearly identify the core of the intended approach. If the offeror has a "new and creative" solution to the production technology goal(s), that solution should be developed and analyzed in this section. The proposal should include a risk assessment of key technical, schedule or cost areas and their potential impact on the program. If subcontractors are proposed, identify why selected and what tasks they are to perform. The offeror shall reference/acknowledge the acceptability of all specified/applicable data items in the list of deliverables that were identified in the Statement of Objectives.
- d. Program Schedule: The schedule represents the offeror's plan to perform the program tasks in an orderly, timely manner. Provide each major task identified in the SOW as a separate line on the program schedule chart. Provide a schedule of when all deliverables identified in the announcement are to be delivered. The period of performance shall be proposed in the format "includes 45 months for technical effort and 3 months for Final Report."

### **4. Capabilities and Relevant Experience**

- a. Identify related Government, commercial, previous, or related production efforts.

- b. Identify facilities/resources proposed for the effort
- c. Identify and provide resumes of all key personnel (include key subcontract/consultant personnel).

## **5. Management**

- a. Program Organization: Identify the program organization. Organizational charts may be helpful in showing the structure of the program.
- b. Management Approach: Identify management approach to assure contract completion (e.g., meeting schedule, cost and program goals).
- c. Appendix: Appendices may include technical reports, published papers, and referenced material in support of the offeror's proposal. Commercial product advertising brochures may also be provided. Please be aware that these items shall be included in the proposal page limitation.

## **6. Summary Business Plan**

The summary business plan describes how the offeror's production capability developed or expanded under the project will achieve/maintain long-term economic viability. The plan identifies target customers (both military and commercial) as well as specific targeted military systems (where information is available). Financial information required in Appendix III – Summary Business Plan Outline must be provided. It should be noted by all offerors that a Summary Business Plan must be submitted with the proposal and is one of the proposal submission requirements listed above. A sample outline for the Summary Business Plan appears in Appendix III of this FOA. Length is not to exceed **25** pages. Note: The Summary Business Plan is not the same as the Strategic Business Plan that is a required annual deliverable item after award.

## **7. Offeror's Statement of Work (SOW)**

- a. The SOW developed by the offeror and included in the proposal may be incorporated into a binding instrument. The SOW should build upon the requirements of the Government's SOO (Appendix VI). The proposed SOW must contain a summary description of the technical methodology as well as the task description, but not in so much detail as to make the contract inflexible. Do not include any proprietary

information in the SOW. The Government requires a SOW that is fully releasable under the Freedom of Information Act to allow the public to be informed of the use of Government Funds; consequently, it is imperative that no company-sensitive information be included in the SOW of the technical proposal. Length is not to exceed **15** pages.

- b. The following is offered as a recommended format for the SOW. Begin this section on a new page. Start your SOW at Paragraph 1.0.

1.0 Scope: This section includes a statement of what the program covers. This should include the overall effort to be advanced or capacitized, objectives/goals, and major milestones for the effort.

2.0 Requirements:

2.1 The work effort should be segregated into major tasks and identified in separately numbered paragraphs (similar to the numbered breakdown of these paragraphs). Each numbered major task should delineate by subtask the work to be performed, including any cost-sharing work, and should be sequentially numbered.

2.2 The offeror must identify all reviews (by milestone or task) and when/where the reviews will be conducted.

2.3 The offeror must identify any and all hardware/software to be delivered to the Government as a result of the program.

Any questions concerning the proposal, whether technical or contractual in nature, shall be referred to the Contractual POC stated above.

- 8. Cost Proposal Spreadsheet:** The cost proposal spreadsheet should provide complete details of the costs (including cost share portion) associated with the entire proposed effort. The budget should be in the offeror's fiscal year.

**The electronic submission of the Excel spreadsheet associated with the Cost Proposal 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 term "useable condition" also indicates using meaningful labor descriptors such as Senior Material Scientist. Do not use internal cost codes which are meaningless outside of your organization (such as labor category**

**301) and provide no common knowledge description of the labor type nor cost being proposed.**

**As described above, offerors can find the Cost Proposal Spreadsheet in Appendix IV.**

**9. Cost/Business Proposal:**

- a. Separate the proposal into a business section and cost section. Adequate price competition is anticipated.
- b. The business section should contain all business aspects to the proposed agreement, such as type of assistance instrument, any exceptions to terms and conditions of the announcement model agreement, any information not technically related, etc. Provide rationale for exceptions.
- c. Identify any technical data that will be delivered with less than unlimited rights.
- d. **Cost proposals** including the cost proposal spreadsheet have no page limitations; however, offerors are requested to keep cost proposals to 100 pages as a goal. The following information must be included in this volume:
  - 1) The proposal shall be furnished with supporting schedules and shall contain a person hour breakdown per task. The person hour breakdown per task includes labor category showing number of hours, labor type being utilized (such as senior engineer, 1600 hours total, proposed at \$20.00 hourly rate). The cost proposal shall include a time-phased description of anticipated costs over the entire effort (see Appendix IV). Time phasing shall be shown at least quarterly with a preference for monthly breakout.
  - 2) The costs shall be broken out by offeror and Government cost. If the FOA provides the schedule of estimated Government funding, the proposal shall show how the proposed plan is compatible with the Government funding schedule. If it is not compatible, the offeror shall explain how the incompatibility is to be remedied.
  - 3) In consideration of adequate price competition, the Government will be determining the Cost Realism of your proposal. To facilitate this, offerors are required to provide, as a part of their Cost section, information determined as necessary by the offeror to demonstrate/support the submission of realistic costs for the technical effort proposed.

- 4) Of importance in this cost section is **the offeror's analysis** demonstrating the relationship between the cost information submitted and the business and technical effort set forth.
- 5) **Direct labor** proposed should include a breakout of the number of labor hours for each proposed labor category and indicate the basis for proposed rates (Forward Pricing Rate Agreement (FPRA) or Recommendation (FPRR)), an estimating model, historical projections or some other reasonable method for projecting costs. All costs proposed must be supported and clearly described. Do not use internal cost codes which are meaningless outside of your organization (such as labor category 301) and provide no description of the labor type nor cost being proposed. Instead use meaningful labor descriptors such as "Senior Material Scientist."
- 6) **Travel** proposed should include the number of trips, travelers, days, destinations, necessity, and timeframe. Note that proposed travel costs should also be included in appropriate area of Cost Proposal Spreadsheet. Provide travel tool or method used to develop travel costs.
- 7) **The Material and Equipment** cost element should include a breakdown of the types and quantities proposed and the basis that was used to derive the cost estimate such as purchase orders, vendor quotes, engineering judgment, or historical data. Note the Material and Equipment cost elements should also be included in the Cost Proposal spreadsheet.
- 8) Any proposed **subrecipients or subcontractor** should address why the proposed subrecipient or subcontractor is necessary for the effort and how the price was determined reasonable. Proposed subrecipients or subcontractor cost proposals shall be at the same level of detail required for the prime recipient's cost proposal.
- 9) The material solicited in this volume will facilitate the Government's evaluation of price reasonableness and determination of cost realism. The receipt of information from offerors is more relevant to an analysis of resources proposed for the technical program tendered than uncorrelated and voluminous data (i.e., your analysis should address the specific complexities of the work proposed and the rationale for the specific resources required to complete the program).

10) The offeror shall also state in this section whether its accounting/financial systems have previously been audited by a Government agency or independent auditor.

11) See Appendix V for Title III Funding Guidelines.

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

## V. Proposal Review Information

### A. Project Requirements

Please see Section 3.0 of the Statement of Objectives (SOO), Appendix VI, for the specific requirements.

**B. Evaluation Criteria:** The selection of one or more sources for award will be based on an evaluation of the offeror's technical and cost proposals to determine the overall merit of the proposal in response to the FOA, SOO and funding availability. The evaluation criteria are comprised of five factors ranked in descending order of importance. These criteria will be used to evaluate the proposal once it is determined that the offeror has met all the Project Requirements outlined in Section 3.0 of the SOO, Appendix VI.

### PHASE I and PHASE II:

- 1. Manufacturing Capability and Experience** – Proposals will be evaluated on the offeror's qualified technical experience and institutional knowledge with respect to manufacturing methods for reaction wheels in the 1 to 10 N-m-sec class, and small Control Moment Gyroscopes (CMGs), if offered, for both United States Government (USG) and commercial markets. Offerors must be able to demonstrate they are a viable supplier of Reaction Wheel Assemblies (RWAs) with space-flight heritage and are seeking to modernize/expand their offerings.
- 2. Quality of Technical Approach** – Proposals will be evaluated on the offeror's credibility and how reasonable their approach is for establishing/expanding a production capability for next generation reaction wheels.
- 3. Business Viability** - Proposals will be evaluated on the offeror's business, technical and financial credibility, demonstrated experience, willingness, and a credible business plan to be employed in developing a plan to become, or maintain a position as, a competitive, economically

viable, responsive supplier to the Government and commercial sectors for the proposed reaction wheel.

4. **Merchant Supplier Orientation** – Proposals will be evaluated on the extent to which the offeror demonstrates a commitment to being, or explanation of resources to be employed in establishing acceptance and credibility as, a merchant supplier of reaction wheels (or small CMGs, if offered) as defined in the Certification Regarding Merchant Supplier Orientation.
5. **Cost/Price** - Proposals will be evaluated on the realism of the proposed cost, amount of recipient cost share, and consideration of proposed budgets and funding profiles. Cost sharing will be viewed favorably by the US Government in the proposal evaluation process (which will indicate a strong commitment to and self-interest in the success of the project).

### C. Review and Selection Process

1. Categories: Based on the evaluation, proposals will be categorized as Selectable or Not Selectable (see definitions below). The selection of one or more sources for award will be based on the evaluation, as well as importance to agency programs and funding availability.
  - i. **Selectable:** Proposals are recommended for acceptance if sufficient funding is available.
  - ii. **Not Selectable:** Even if sufficient funding existed, the proposal should not be funded.

Note: The Government reserves the right to award some, all or none of the proposals. When the Government elects to award only a part of a proposal, the selected part may be categorized as Selectable, though the proposal as a whole may not merit such a categorization.

2. No other evaluation criteria will be used. The Air Force reserves the right to select for award any, all, part or none of each proposal received.
3. Prior to award of a potentially successful offer, the Agreements Officer will make a determination regarding budget reasonableness.

## VI. Award Administration Information

- A. **Award Notices:** Offerors will be notified whether their proposal is recommended for award, by letter or e-mail, on or about **Friday, 12 April 2019**. The notification is not to be construed to mean the award of an

agreement is assured, as availability of funds and successful negotiations are prerequisites to any award.

- B. **Administrative and National Policy Requirements:** See Section I.
- C. **Reporting:** Please refer to the model Technology Investment Agreement (TIA) (Appendix II) Part 7 Technical and Financial Reporting.

## VII. Other Information

- A. **Support contractors:** Only Government employees will evaluate proposals for selection. Offerors are advised that employees of commercial firms under contract to the Government may be used as advisors to administratively process proposals, monitor recipient performance, or perform other administrative duties requiring access to other contractors'/recipients' proprietary information. These support contracts include nondisclosure agreements prohibiting their contractor employees from disclosing any information submitted by other contractors or using such information for any purpose other than that for which it was furnished. Below are the contractors that are supporting this program.

Northrop Grumman Corporation  
Technology Services Sector  
4065 Colonel Glenn Highway  
Beavercreek, OH 45431

Aerospace Corporation  
2530 El Segundo Blvd.  
El Segundo, CA 90245

- B. **Informal Feedback Sessions:** When requested, an informal feedback session will be provided. The process will follow the time guidelines outlined in the notification letter.
- C. **Wide Area Work Flow:** NOTICE: Any agreement resulting from this solicitation will contain the article 4.027—Payment Reimbursement, which allows electronic submission of all payment requests. The Department of Defense is adopting Wide Area Work Flow-Receipt and Acceptance (WAWF-RA). Any agreement resulting from this solicitation will allow use of WAWF-RA for invoicing and receipt/acceptance, and provide coding instructions applicable to this agreement. Offerors 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/>

**D. Forward Pricing Rate Agreements:** Offerors who have forward pricing rate agreements (FPRAs) and forward pricing rate recommendations (FRRs) should submit them with their proposal.

**E. Reporting Executive Compensation and First-Tier Sub-contract/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 170  
[http://www.ecfr.gov/cgi-bin/textidx?tpl=/ecfrbrowse/Title02/2cfr170\\_main\\_02.tpl](http://www.ecfr.gov/cgi-bin/textidx?tpl=/ecfrbrowse/Title02/2cfr170_main_02.tpl)

**F. Updates of Publicly Available Information Regarding Responsibility Matters:** Any contract or assistance award that exceeds \$550,000.00; and when offeror checked "has" in paragraph (b) of the provision FAR 52.209-7, shall contain the clause/article, FAR 52.209-9 "Updates of Publicly Available Information Regarding responsibility Matters (JUL 2013)."

**G. Recipient Business Systems:** Financial Management Systems: IAW DoDGARs 34.11 and 37.615, is hereby incorporated by reference.

**H. Ombudsman:** The Ombudsman article 5.020 entitled "Ombudsman" shall be contained in any Agreement resulting from this Solicitation. The AFRL Ombudsman is Lisette K. Leduc, Director of Contracting, AFRL/PK, (937) 904-4407, email: [Lisette.Leduc@us.af.mil](mailto:Lisette.Leduc@us.af.mil). Kimberly Yoder, Deputy Director of Contracting, AFRL/PK, (937) 255-4967, email: [kimberly.yoder@us.af.mil](mailto:kimberly.yoder@us.af.mil), is the Alternate Ombudsman.

**I. 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 Agreements Negotiator.
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.C.2. of the solicitation for page limits.
4. Completed Title III Certifications and Representations are due with the proposal. Certifications and Representations can be found at Appendix I.

5. The Cost/Business Proposal must contain all information described in the Content and Form of the Proposal Section.
6. For any subrecipients and/or subcontracts proposed, the Cost/Business Proposal must contain a subrecipient and/or subcontractor quote/analysis.
7. The Cost/Business Proposal must contain any exceptions to the sample Model Agreement Terms and Conditions. (See Appendix II for sample model agreement). However, be advised that the document awarded may include articles in addition to those in the model, and/or articles in the model 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. In the interest of streamlining and in order to be in position to award within days of completion of the technical evaluation, it is imperative that you review the model TIA appropriate for your business type and provide with your proposal any exceptions to terms and conditions.
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. Because this effort is subject to export control, offerors must submit a Certified DD Form 2345, Militarily Critical Technical Data Agreement, with their proposal.

Appendix I	Title III Certifications and Representations
Appendix II	Sample Technology Investment Agreement
Appendix III	Summary Business Plan Outline
Appendix IV	Sample Cost proposal Spreadsheet
Appendix V	Title III Funding Guidelines
Appendix VI	DPA Title III Statement of Objectives