

Date: November 20, 2020 adds amendments No. 1-3 and attachment

Amendments No. 1-3 to the Notice Of Funding Opportunity (NOFO) for 2021 NASA EPSCoR International Space Station (ISS) Flight Opportunity Solicitation

Entitled
Established Program to Stimulate Competitive Research (EPSCoR)
International Space Station (ISS) Flight Opportunity
Announcement Number: NNH21ZHA001C
Released September 28, 2020

The purpose of this amendment is to augment the ISS Flight Opportunity solicitation with this suborbital opportunity. Each jurisdiction should be aware that they can submit one ISS flight opportunity proposal following guidance from the basic solicitation and one suborbital flight opportunity proposal following guidance from amendment 3 (Appendix G).

Amendment 1: Change the title of the solicitation

Was: EPSCoR International Space Station (ISS) Flight Opportunity
Change to: EPSCoR International Space Station (ISS) Flight Opportunity and Suborbital Flight Opportunity

Amendment 2: Extend the proposal due date for all proposals

Was: January 7, 2021
Change to: February 22, 2021

Amendment 3: Add the following appendix:

Appendix G: Suborbital Flight Opportunity

SUMMARY OF KEY INFORMATION

Name: Suborbital Flight Opportunity, hereafter called “Solicitation”.

Goal/Intent

This Appendix G adds as a stand-alone solicitation, the opportunity to propose a suborbital flight aboard a commercial suborbital vehicle funded by the Space Technology Mission Directorate’s Flight Opportunities program and is for current or previously funded EPSCoR projects or other research projects that are mature enough to design a research experiment or develop research experimental hardware to the point that it can be flown in a suborbital environment. Each NASA-funded EPSCoR proposal is expected to perform scientific and/or technical research in areas that support NASA’s strategic research and technology development priorities and contribute to the overall research infrastructure, science and technology capabilities of higher education, and economic development of the jurisdiction receiving funding.

Solicitation Availability

This solicitation is open to the 28 eligible EPSCoR jurisdictions only and is accessible through NSPIRES. To access this CAN Amendment through NSPIRES, go to <https://tinyurl.com/epscor-iss-fo-2021> and click on the amendments

Selection Process

The selection will be a two-step process:

- **Compliance review:** The proposals are reviewed by an EPSCoR representative for compliance with the solicitation requirements. This includes an assessment by an STMD/FO representative for proposed flight provider eligibility and flight feasibility.
- **Mission Directorate review panel:** All compliant proposals will be presented to a Mission Directorate review panel along with the ISS Flight Opportunity proposals for funding recommendations. Proposals will be evaluated against the evaluation criteria outlined in Section 4.2 of this Solicitation.

Funds Availability

The Government's obligation to make an award is contingent upon the availability of appropriated funds from which payment can be made.

Number and Size of Awards

It is anticipated that up to three (3) awards of up to **\$200,000 each not including flight provider costs**, to be expended over a period of performance not-to-exceed three (3) years, will be made under this Notice pursuant to the authority found at 2 Code of Federal Regulations (CFR) § 200, Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards, as adopted and supplemented by NASA through the *NASA Grant and Cooperative Agreement Manual* (GCAM), Appendix D, and 2 CFR § 1800 (all available at http://prod.nais.nasa.gov/pub/pub_library/srba/index.html). The exact number of awards depends on the available funding within the EPSCoR Research Budget and the Flight Opportunities program budget.

Eligible Flight Providers & Maximum Allowable Number of Flights

The proposer's organization will directly purchase the proposed flight(s) on a currently available U.S. commercial vehicle. The proposer is limited to proposing to use one (1) flight provider in one (1) vehicle class with associated maximum number of allowed flights as detailed in Section 2.4.1.

Proposal Submission

All information needed to respond to this Amendment to the ISS Flight Opportunity solicitation is contained in the basic announcement, Section 6.0, "Updates and Submission Information".

Inquiries

Technical and scientific questions about this solicitation may be directed to:

EPSCoR

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Suborbital Flight Opportunity

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Inquiries regarding the submission of proposals via NSPIRES may be addressed to:

NASA Research and Education Support Services (NRESS)

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1 Description of Opportunity

1.1 Technical Description

The National Aeronautics and Space Administration (NASA) Office of Science, Technology, Engineering, and Mathematics (STEM) Engagement (OSTEM), in cooperation with the Space Technology Mission Directorate / Flight Opportunities program (STMD/FO), solicits proposals for suborbital flight of current or previously funded EPSCoR projects or other research projects that are mature enough to design a research experiment or develop research experimental hardware to the point that it can be flown in a suborbital environment. Each NASA-funded EPSCoR proposal is expected to perform scientific and/or technical research in areas that support NASA's strategic research and technology development priorities and contribute to the overall research infrastructure, science and technology capabilities of higher education, and economic development of the jurisdiction receiving funding.

This suborbital flight opportunity is modeled after the existing EPSCoR *ISS Flight Opportunity* solicitation and the Flight Opportunities *Tech Flights* solicitation. EPSCoR and STMD/FO are conducting this pilot in FY2021 through an Appendix G to the ISS Flight Opportunity solicitation.

The parameters of this Suborbital Flight Opportunity are:

- One Suborbital Flight Opportunity proposal per jurisdiction shall be accepted
- It is estimated that up to three (3) Suborbital Flight Opportunity proposals may be selected for funding
- The maximum funding request per Suborbital Flight Opportunity proposal is **\$200,000 excluding flight provider costs**. The amount is to be expended over a period not-to-exceed three(3)-years
- A flight quote shall be included in the proposal from a commercial flight service provider that meets criteria identified in Section 2.4.1
- There is no cost share requirement for this opportunity
- Proposals are due no later than 11:59 p.m., Eastern Time, **February 22, 2021**
- All proposals shall be submitted through the jurisdiction's NASA EPSCoR Director's office
- The anticipated start date may be negotiated with the NASA Shared Services Center (NSSC) Grants Officer
- This Amendment is being announced in electronic form through NSPIRES. To access the CAN and Amendment through NSPIRES, go to <https://tinyurl.com/epscor-iss-fo-2021>

NASA EPSCoR shall assign a Technical Monitor (TM) to each award. The TM shall monitor the progress of the research and collaborate as required to keep the research aligned with the approved project's objective(s). Each recipient shall provide an annual report on the progress of the research; this report shall be reviewed by the TM and approved by the NASA EPSCoR Project Manager. These reports shall be shared with the Flight Opportunities program, NASA Centers, and JPL.

NASA Flight Opportunities shall assign a Campaign Manager (CM) to each Suborbital Flight Opportunity award. The CM shall support the research team in their interactions with the flight provider and monitor progress towards a successful flight (e.g. participate in flight readiness reviews).

1.2 STMD Flight Opportunities (STMD/FO) Background

The National Aeronautics and Space Administration (NASA) Space Technology Mission Directorate's (STMD) mission is to address key research and technology challenges that will advance revolutionary capabilities for both NASA exploration mission challenges and national needs, and also address the market challenges associated with providing state-of-the-art commercial space products and services.

STMD's Flight Opportunities program facilitates rapid demonstration of promising technologies for space exploration, discovery, and the expansion of space commerce through suborbital testing with industry flight providers. The program matures capabilities needed for NASA missions and commercial applications while strategically investing in the growth of the U.S. commercial spaceflight industry.

Collaboration between EPSCoR and the Flight Opportunities program will strengthen relationships between the respective communities and build experience and know-how in the EPSCoR community on the availability, useability, and value of U.S.-based commercial suborbital flight services. The partnership will engage the EPSCoR community with commercial suborbital flight providers, as well as open new paths for the jurisdictions to compete for and win larger spaceflight research projects.

More information about the Flight Opportunities program can be found at:

<https://www.nasa.gov/flighthopportunities>

More information about NASA STMD can be found at:

<http://www.nasa.gov/spacetech>

1.3 EPSCoR Jurisdiction Eligibility

Same as ISS Flight Opportunity.

1.4 Period of Performance

NASA EPSCoR Suborbital Flight Opportunity awards will support a three(3)-year cooperative agreement. It is anticipated that this period of performance will enable the researchers to achieve the objectives of the suborbital flight and associated reporting/publishing as stated in the original proposal. The three(3)-year period of performance is a not-to-exceed duration. If deemed more appropriate, a shorter duration can be proposed, with a minimum of 18 months.

2 Project Overview and Guidelines

2.1 General

Each selected NASA EPSCoR Suborbital Flight Opportunity project shall perform scientific and/or technical research in areas that support NASA's strategic research and technology development priorities. Suborbital flight can be used as a maturation stepping stone between ground based research and downstream orbital flight research/demonstration, and/or can be utilized for scientific research that can be accomplished in suborbital flight. Proposals shall emphasize how suborbital flight will influence/mature the results/quality of any prior ground-

based research or technology development and will provide insight into how the suborbital flight fits into a larger scientific research or space technology development context, if applicable.

2.2 Funding and Cost-Sharing

The maximum funding that a jurisdiction may receive from NASA EPSCoR is **\$200,000 per proposal excluding flight provider costs** based on the availability of NASA funds. This amount is to be expended over a maximum of three (3) years in accordance with the budget details and budget narrative which will be included in the proposal and will be approved at the time of award. Funds may be used to cover the design, development, preparation of the payload for flight, travel in support of the flight, post-flight analysis and reporting, as well as indirect costs.

The flight provider costs included in the proposal do not count towards the \$200,000 limit and are delimited by the maximum number of allowable flights as stipulated in Section 2.4.1.

Remainder of section: same as ISS Flight Opportunity.

2.3 Restrictions

Same as ISS Flight Opportunity, with the following additions:

- *No workshop is currently envisioned for the Suborbital Flight Opportunity*
- *Human-tended experiments other than for aircraft following reduced-gravity flight profiles are not allowed*

2.4 Special Information Relative To This Solicitation

2.4.1 Eligible Flight Providers & Maximum Allowable Number of Flights

The proposer's organization will directly purchase the proposed flight(s) on a currently available U.S. commercial vehicle. The proposer is responsible for choosing which vehicle best meets their needs. The proposer is not restricted to flight providers previously funded by the Flight Opportunities program. However, the proposal shall only utilize vehicles whose providers have conclusively demonstrated successful flight(s) – test flights or commercial flights that were launched and recovered successfully with payload intact and have achieved the minimum flight capabilities as described in the table below.

Note: Proposals may include flights to lower altitudes, however, the minimum demonstrated flight capability requirements for the vehicle are still applicable.

The proposer is limited to proposing to use one (1) flight provider in one (1) vehicle class. For Suborbital Rockets, Rocket-Powered Lander Vehicles, and High-Altitude Balloons, the maximum number of allowable flights is one (1). For aircraft following reduced-gravity flight profiles, up to 4 flights (one flight is one take-off/landing) may be proposed, to be performed within the proposed project duration. Human-tended flights other than for aircraft following reduced-gravity flight profiles are not allowed for this solicitation.

Table 1 Minimum Demonstrated Flight Capabilities of eligible Vehicle Classes.

#	Vehicle Class	Sub Class	Minimum Demonstrated Flight Capabilities	# Flights Allowed
1	Rocket-Powered Vehicles	Suborbital Rocket	Minimum altitude of 80 km above Mean Sea Level (MSL)	1
		Rocket-Powered Lander Vehicle	Controlled descent and controlled vertical landing of a free-flying vehicle using a propulsion system of a class that can operate in a vacuum	1*
2	High-Altitude Balloons		Minimum altitude of 30 km above MSL	1
3	Aircraft Following Reduced-Gravity Flight Profiles		No minimum requirement	Up to 4

* For Rocket-Powered Lander Vehicles, one flight may include precursor shakedown/tethered testing.

The Flight Opportunities program expects that all payloads seeking flight under this solicitation will be expendable. NASA holds no safety responsibility for suborbital flights conducted under this solicitation. All flights will be regulated by the FAA. An awardee’s institution and the flight service provider are responsible for meeting all applicable local, state, and federal regulations. If human or other living test subjects are involved in the research, the proposer’s institutional review board and the flight providers are responsible for meeting all applicable research requirements.

The Flight Opportunities program is unable to provide a list of currently available flight providers. Historical flight providers can be found using the following link, however, proposers are not restricted to using these flight providers.

<https://www.nasa.gov/directorates/spacetech/flightopportunities/flightproviders>

2.4.2 Student Research Assistants

Same as ISS Flight Opportunity.

2.4.3 Labs and Jurisdiction Funding Support

Same as ISS Flight Opportunity.

2.5 Partnerships and Interactions

Same as ISS Flight Opportunity.

3 Program Management

Same as section 3.0 in ISS Flight Opportunity, but replace ISS with STMD/FO.

4 Proposal Preparation, Review and Selection

Proposers shall submit a scientific/technical, management, and budget proposal through NSPIRES by the due date shown above in the SUMMARY OF KEY INFORMATION.

Reviewers will use the evaluation criteria in Section 4.2 below to evaluate all proposals. Proposals submitted in response to this solicitation must have only a single attachment not to exceed 20 MB. The single attachment contains all sections of the proposal, including the scientific/technical and management section, the budget narrative, and all required and allowed appendices. See Section 4.1 for further requirements.

4.1 Proposal Preparation

All compliant proposals will follow the layout as detailed in the table below. The proposal shall contain sufficient information to enable reviewers to make informed judgements regarding the factors described in Section 4.2. The format of the proposal (font size, margins, etc.) shall follow the guidelines described in Section 3.6 of the Guidebook for Proposers.

Reviewers will not consider any proposal material in excess of the page limits specified in the Table below. No additional sections/appendices beyond what is listed in the table are allowed. Any excess material will be removed from the proposal prior to forwarding for evaluation. Proposers must clearly mark any Proprietary Data in their proposal.

Proposal Section #	Proposal Section	Maximum Page Length
1	Title Page & Table of Contents	2
2	Summary Chart	1
3	Scientific/Technical & Management	8
4	References & Citations	No page limit.
5	Statements of Commitment and Letters of Support	No page limit.
6	Flight Provider Quote, Cost & Schedule	No page limit.
Overall Size of Proposal <u>Not to Exceed 20 MB</u>		

Proposal Section 1: Title Page & Table of Contents

Proposals should include a Title Page which states the name of the proposal and the proposing entity. If applicable, statements regarding Proprietary Data policy and/or export control shall also be provided on the Title Page. The Title Page may also include project or organization logos, but shall not include additional data such as photos, company descriptions or proposal abstracts.

Proposers should include a Table of Contents that provides a guide to the organization and contents of the proposal.

Proposal Section 2: Summary Chart

Section 2 of the proposal shall provide a Summary Chart as shown in the figure below. Proposals that do not include a completed Summary Chart may be declared non-responsive and not reviewed. **The Summary Chart shall be part of the PDF attachment that is uploaded to NSPIRES.**

The purpose of the Summary Chart is to capture the top-level, critical information from the entire proposal into a single, stand-alone page. The summary chart shall occupy the entire 8.5” x 11” page and be in landscape format. The Summary Chart will be used for NASA internal presentations and may also be released publicly if the proposal is selected. Proprietary Data and/or ITAR/EAR information shall not be included and all information on the chart shall be publicly releasable by NASA. The Summary Chart shall use the format as provided in the figure. A template in a commonly used presentation software format is provided for this purpose, however proposers are not required to use any particular software. The specific instructions for each block are given in the template available at:

<https://tinyurl.com/epscor-iss-fo-2021>.

The diagram illustrates the layout of a Summary Chart template. It features a header section with the NASA logo on the left, the text "Proposal Title" in the center, and the NASA EPSCoR logo on the right. Below the header, there are eight distinct blocks arranged in a grid-like structure:

- Block 1:** Proposal Title (Header)
- Block 2:** Scientific Merit / Technology Need
- Block 3:** Purpose of Suborbital Flight
- Block 4:** Payload Description
- Block 5:** Flight Requirements/Schedule
- Block 6:** Team
- Block 7:** Graphic Goes Here (A large central area for a graphic)
- Block 8:** Date (Bottom left corner)

Figure 1 Summary Chart Template. Available at <https://tinyurl.com/epscor-iss-fo-2021>

Proposal Section 3: Scientific/Technical & Management

This is the main body of the proposal. This section should be organized in a manner consistent with the evaluation criteria described in Section 4.2 and shall address the following aspects.

Merit of Proposed Research And Use of Suborbital Flight

Describe the proposed research and how the use of suborbital flight will further the goals of the research, i.e. what is the added value of flying what is proposed?

- Existing Research – If relevant, the narrative shall include a very brief history of the NASA EPSCoR Research project (include the grant number assigned by the NSSC)
- New Research – If not previously funded by EPSCoR, the narrative shall include a description how the proposed research aligns with the FY2021 Areas of Research Interests as described in Appendix A of the EPSCoR FY2021 Research CAN available on request from the EPSCoR Project Manager
- Benefit of a suborbital flight environment to the research – Each proposal shall provide a detailed technical narrative of the proposed research activity and the potential impact of suborbital flight on the proposed research. Provide a compelling case for flying the payload in lieu of conducting the experiment using other means (e.g., ground testing).

Flight Test Plan

Outline the flight objectives which are clear, measurable, and relevant to the advancement of the research. Identify the key test objectives and measurable success criteria for each. Provide evidence that the flight test approach is realistic, fits the test objectives, and is relevant to the advancement of the research. Show that the proposed flight service provider is well suited to execute the flight. Provide evidence (including a quote from the flight provider) of the flight provider's ability to provide the requested flight on a qualified vehicle.

It is expected that the PI will be present for all flights sponsored by the Flight Opportunities program.

Proposal Section 4: References & Citations

Provide references and citations that support the Proposal Section 3 – Scientific/Technical & Management. Use easily understood standard abbreviations for journals and complete names for books. Note that the reviewers are not required or expected to read the references; therefore, the proposals must stand alone in meeting the evaluation criteria.

Proposal Section 5: Statements of Commitment and Letters of Resource Support

Letters of support must be included for the following cases, as applicable – see the Guidebook for Proposers - Section 3.17 Statements of Commitment and Letters of Resource Support:

- From each team member's organization (if different from the PI's organization), including government organizations for government personnel: a letter stating the organization's approval of participation in the proposal. The letter must be from a person in the organization authorized to commit the organization's resources to the extent described in the proposal. The PI's organization is not required to submit a letter, since submission of the proposal by the AOR is considered sufficient approval.
- From the owner of any facility or resource that is to be used for the project but that is not under the proposer's direct control: a letter acknowledging that the facility or

resource is available for the proposed use during the proposed period. A Letter of Resource Support is not required from the Flight Provider, since the Flight Provider Quote (see Proposal Section 6) serves this purpose.

- From government agencies or funding/sponsoring institutions of team members located in non-U.S. institutions: a letter indicating that if the proposal is selected, sufficient funds will be made available to the foreign entity by his/her country's government agency or funding/sponsoring institution to undertake the activity as proposed.

Proposal Section 6: Flight Provider Quote, Cost and Schedule

A quote shall be provided from a commercial flight service provider that meets the criteria identified in Section 2.4.1. The flight provider quote shall include the following:

- Quote addressed to the PI or PI organization
- Standard services provided (e.g. minimum 20 parabolas, number of parabolic flights, etc.)
- Non-standard services provided (e.g. power, venting, access to window, etc.)
- Location of services
- Vehicle to be used
- Scheduled dates of service
- Period of validity
- Associated cost
- Confirmation that the proposed payload requirements from the Principal Investigator have been reviewed by the flight provider

Proposals without a flight provider quote may be declared non-compliant and declined without review.

For flight providers who have not previously flown with the Flight Opportunities program, proposers must show that the vehicle has successfully flown as required in Section 2.4.1 and submit evidence that the flight provider is a U.S. commercial flight provider – licensed to operate commercial flights for compensation or hire in the U.S.

It is the proposer's responsibility to ensure that the proposed flight provider has the necessary certifications including (but not limited to) permits, licenses, or waivers for operation, as applicable, from the FAA or other governing authority for the flight activity and is capable of meeting the flight demonstration schedule within the timeframe specified in the solicitation. These certifications do not need to be included in the proposal.

Proposers are strongly encouraged to contact their flight provider well in advance of the proposal due date to ensure sufficient time is available for producing a flight provider quote.

Cost and Schedule

A detailed budget is required for the entire period of performance. Provide a budget with justification for each cost element proposed. The Budget Justification is a categorical description of the proposed costs and addresses major cost categories such as salaries, fringe benefits, equipment, travel, supplies, other direct costs, indirect costs, and consultants. The budget narrative must be adequate to justify the costs.

Provide a schedule that identifies the required preparation work and key milestones including the Flight Reservation, Flight Readiness Review, Flight, Final Report, and other pertinent events (e.g. participation in conferences such as the Next-Generation Suborbital Researchers Conference). The schedule should be achievable and coincide with the flight provider quote for flight dates.

4.2 Proposal Review and Selection

Funded jurisdictions' proposals shall be selected through a merit-based, peer-review competition, presented for review to a NASA HQ Mission Directorate Review Panel with participation by STMD/FO. The proposals recommended for funding will be presented to the EPSCoR Project Manager, who is the selecting official for this CAN. Successful research proposals are likely to be those that provide sound contributions to both immediate and long-term scientific and technical needs of NASA as explicitly expressed in current NASA documents and communications; successful proposals are also likely to contribute to the overall research infrastructure and economic development of the proposing jurisdiction. The EPSCoR Program Office will ensure that all proposals are evaluated based on the Evaluation Criteria detailed below.

Evaluation Criteria 1 – Merit of Proposed Research And Use of Suborbital Flight (Weight 40%)

Evaluation includes consideration of the following:

The extent to which the proposal adequately and convincingly details the benefit of a suborbital flight for the research proposed, i.e. is there added value to flying what is proposed? For research not previously funded by EPSCoR, the extent to which the proposed research aligns with the FY2021 Areas of Research Interests as described in Appendix A of the EPSCoR FY2021 Research CAN.

Evaluation Criteria 2 – Flight Test Plan (Weight 35%)

Evaluation includes consideration of the following:

The extent to which the flight test objectives are clear, measurable, and relevant to the advancement of the research. The extent to which the key flight test objectives are clearly described and identify measurable success criteria for each. The extent to which the proposed flight service provider is well suited to execute the flight. Substantiated evidence (including a quote from the flight provider, as outlined in Proposal Section 6 above) of the flight provider's ability to provide the requested flight on a qualified vehicle.

Evaluation Criteria 3 - Cost and Schedule (Weight 25%)

Evaluation includes consideration of the following:

Cost: The costs are within the allowable amounts and the extent to which the proposal makes efficient use of the funds available. The reasonableness and realism of all proposed cost elements.

Schedule: The degree to which the schedule identifies the required preparation work and key milestones including Flight Reservation, Flight Readiness Review, Flight, and other pertinent events, is realistic and coincides with the flight provider quote for flight dates.

Remainder of section: same as ISS Flight Opportunity.

4.3 Selection Announcement

Same as ISS Flight Opportunity, with the following change:

- *Anticipated notice/announcement of awards for selected proposals is **May 2021**.*

5 Award Administration

Same as section 5.0 in ISS Flight Opportunity, with the following changes:

- *Replace ISS with STMD/FO*
- *Anticipated notice/announcement of awards for selected proposals is **May 2021**.*

6 Updates and Submission Information

Same as section 6.0 in ISS Flight Opportunity, with the following changes:

- *Submission date is 11:59 p.m. Eastern Time on **February 22, 2021**.*

7 References

Additional programmatic information may develop before the proposal due date. If so, such information will be added as a formal amendment to this NRA as posted at <https://tinyurl.com/epscor-iss-fo-2021>. It is the responsibility of the prospective proposer to check this website for updates.

Any clarifications or questions and answers that are published will be posted on a FAQ page for this Appendix on NSPIRES at <https://tinyurl.com/epscor-iss-fo-2021>.

Additional Flight Opportunities program information may be found online at:

Main website: <https://www.nasa.gov/flighthopportunities>

Selected technologies: <https://flighthopportunities.nasa.gov/technologies>

Flight campaign photos: <https://www.flickr.com/photos/nasafo/albums>

Newsletter: <http://go.usa.gov/xNfkW>

Inquiries

Technical and scientific questions about this solicitation may be directed to:

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Suborbital Flight Opportunity

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EPSCoR Suborbital Flight Opportunity instructions

Summary Chart

The purpose of the Summary Chart is to capture the top-level, critical information from the entire proposal into a single, stand-alone page. The Summary Chart shall occupy the entire 8.5” x 11” page and be in landscape format. The Summary Chart will be used for NASA internal presentations and may also be released publicly if the proposal is selected. Proprietary and/or ITAR information must NOT be included and all information on the chart must be publicly releasable by NASA.

The Summary Chart shall use the PowerPoint format as provided in the figure. The titles and layout of the template must not be changed. The size of each text block may be adjusted as needed. The information must be consistent with the information provided in the complete proposal and in the Proposal Cover Page. The text in each block may be provided in sentence or "bullet-point" format. A minimum text size of 10 point is required. The specific instructions for each block are given below. The summary chart template is available at <https://tinyurl.com/epscor-iss-fo-2021>

Block 1 - Proposal Title

Provide the complete proposal title exactly as submitted in the NSPIRES Proposal Cover Page.

Block 2 – Scientific Merit / Technology Need

Describe the scientific merit of the research and/or technology development.

Block 3 – Purpose of Suborbital Flight

Describe the overall concept and purpose of the suborbital flight(s).

Block 4 –Payload Description

Provide a brief description of the actual payload flight apparatus. This should include the overall size and weight as well as any special interface and operational requirements.

Block 5 - Flight Requirements/Schedule

Outline the overall flight plan and identify flight vehicle and number of flights required. The flight readiness date should be included.

Block 6 - Team

Provide the name and the organizational title of the Principal Investigator. Provide the name of the submitting organization.

Prior EPSCoR funding for this work should be detailed with Cooperative Agreement number.

Block 7 - Graphic

Provide graphics (photos, functional schematics, etc) of the test apparatus and/or mission concept/ConOps.

Block 8 – Date

Provide the current date.



Proposal Title *Block 1*



Scientific Merit / Technology Need

Block 2

Purpose of Suborbital Flight

Block 3

Payload Description

Block 4

Flight Requirements/Schedule

Block 5

Block 7
Graphic Goes Here

Team

Block 6

Block 8
Date