

**Request for a 5-page Pre-Proposal**  
**EPSCoR Cooperative Agreement Notice (CAN)**  
**SUBORBITAL Flight Opportunity Announcement Number: NNH21ZHA001C**  
**Due to NM NASA EPSCoR by December 7, 2020**

New Mexico is eligible to submit one proposal under the NASA Established Program to Stimulate Competitive Research (EPSCoR) Research Announcement, Suborbital Flight Opportunity.

The 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.

Email your 5 -page Pre-Proposal to [cmesquiv@ad.nmsu.edu](mailto:cmesquiv@ad.nmsu.edu) Your pre-proposals should be prepared with the intention of submitting a full proposal. Your pre-proposal is due by 12:00 p.m. MST on December 7, 2020. We have provided a link to the NASA Established Program to Stimulate Competitive Research (EPSCoR), Suborbital Flight Opportunity Announcement URL for your use in pre-proposal preparation.

<https://nspires.nasaprs.com/external/solicitations/solicitationAmendments.do?solId=%7BA1D6A4D2-237B-BA31-ECB1-FE41AF185D57%7D&path=open&redirectURL>

This solicitation is an 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 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.

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. Human-tended flights other than for aircraft following reduced-gravity flight profiles are not allowed for this solicitation. The Flight Opportunities program expects that all payloads seeking flight under this solicitation will be expendable (pp. 6-7, Appendix G-Amendment).

## PRE-PROPOSAL ELEMENTS SHOULD INCLUDE (5 PAGES):

Cover sheet not contained in page count

- Research title
- Project Description/Merit and use of suborbital flight– 1 page
  - Extent to which the proposed project adequately and convincingly details the benefit of a suborbital flight (pp. 10, 12, Appendix G-Amendment).
- Flight Test Plan – 1 page
  - Extent to which the proposed flight provider is well suited to execute the flight. Substantiated evidence (including a quote from flight provider/does not count toward page limit) of the flight provider’s ability to carry out a successful flight (p. 10-12, Appendix G-Amendment).
- Summary Chart – 1 page
  - pp. 9, 15-16, Appendix G-Amendment.
- Budget justification/narrative – ½ page.
- Budget and Schedule – 1 page
  - Preparation guidelines for the budget can be found on [Appendix C on Page 35](#) in the NASA Guidebook for Proposers.
  - The maximum funding that can be requested from NASA by a jurisdiction is \$200,000 per proposal (it excludes flight provider costs). This amount is to be expended over three years in accordance with the budget details and budget narrative in the approved proposal.
- Cost-sharing is not required.
- Management and Evaluation – ½ page.
  - A brief explanation of how the proposed project will be managed and what metrics will be used to monitor project progress.

Once we receive the Pre-Proposals, the NASA New Mexico EPSCoR Technical Advisory Committee (TAC) will select the proposed project determined to have the best competitive chance of being funded by NASA. **Selected team will be notified by December 18, 2020.**

Each funded NASA EPSCoR proposal is expected to establish research activities that will make significant contributions to the strategic research and technology development priorities of one or more of the Mission Directorates, and contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the jurisdiction receiving funding. Prior EPSCoR awards are posted on the NASA New Mexico EPSCoR jurisdiction website for your review at: <http://nmnasaepscor.com/>

NASA Guidebook for Proposers (2020 Edition) can be reviewed at:

[https://prod.nais.nasa.gov/pub/pub\\_library/srba/documents/2020\\_edition\\_Proposers\\_Guidebook.pdf](https://prod.nais.nasa.gov/pub/pub_library/srba/documents/2020_edition_Proposers_Guidebook.pdf)

The members of the TAC are chosen by NMSU, UNM, and NM Tech. They are members of a statewide body of collaborators and also include external evaluators. As this is a statewide

program; NASA requires the lead institution to involve research universities statewide. The full proposal is submitted to NASA where they are competitively reviewed. The role of the NM EPSCoR TAC is to assure the proposal most likely to be awarded is well written, feasible, and demonstrates how a suborbital flight fits into the larger scientific research or space technology development of NASA and the jurisdiction.

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>