Program Specific Data

NASA Solicitation and Proposal Integrated Review and Evaluation System

1. Short Title: (you can enter up to 1000 characters)

2. Type of institution:

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3. Additional Institution Classification

** Please check all that apply to the proposing organization; leave blank if not relevant. See https://msiexchange.nasa.gov/institutions for information on MSIs. See https://tinyurl.com/PUIdefinition for information on PUIs. See https://carnegieclassifications.acenet.edu/carnegie-classification/classification-methodology/basic-classification/ for the classification of R1 vs not R1 research activities.*

- ☐ Minority-Serving Institution (MSI)
- ☐ Predominantly Undergraduate-serving Institution (PUI)
- ☐ is NOT a "very highly research intensive institution" (R1)

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4. Will any funding be provided to a federal government organization including NASA Centers, JPL, other Federal agencies, government laboratories, or Federally Funded Research and Development Centers (FFRDCs)?

- ◯ Yes
- ◯ No

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5. Is this Federal government organization a different organization from the proposing (PI) organization?

(Answer N/A if answer to previous question is NO. Answer YES for different NASA Centers).

- ◯ Yes
- ◯ No
- ◯ N/A

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6. Does this proposal include the use of NASA-provided high end computing (HEC)?

** If you answer "yes" to this question, you must provide as a separate PDF upload "appendix" the information requested in a template. See the Summary of Solicitation, Section I (d) for instructions on accessing the template document. Please note that this question only refers to the computer resources described in Section I (d) of the ROSES Summary of Solicitation.*

- ◯ Yes
- ◯ No

7. HEC Request Number (you can enter up to 1000 characters)

If you indicated above that the proposal would contain a request for HEC time, please provide the HEC Request Number (e.g. HEC-SMD-XX-XXXX) provided as part of PDF file and the RMS request confirmation email.

8. Research Category:

This question is asked for broad, SMD directorate level statistical purposes. Please choose the category that closest describes the work being done. If a particular program element does not permit a type of work, this question is not meant to imply that it is allowed.

9. Flight Services

Does this proposal's budget request NASA funding for non-passenger aircraft or helicopter flight services, including Unmanned Aircraft Systems (UAS)/Drones or the acquisition or construction of such flight vehicles?

- ◯ Yes
- ◯ No

10. Team members not confirmed via NSPIRES (you can enter up to 4000 characters)

If a Team Member cannot confirm their participation via NSPIRES, they must be listed here. Give name, institution, city, state or country, and a brief description of the role. A statement of commitment is required for those listed here, see Section IV(b)v of the ROSES Summary of Solicitation for an example. Do not list administrative support staff, such as resource analysts, nor unnamed students or post docs.

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11. Does this proposal contain information and/or data that are subject to U.S. export control laws and regulations including Export Administration Regulations (EAR) and International Traffic in Arms Regulations (ITAR)?

** It is the proposer's responsibility to determine whether any information in the submitted proposal is subject to provisions of the EAR and/or ITAR. This question addresses only the content of this proposal and not any activity that follows as a result of a potential award.*

- ◯ Yes
- ◯ No

12. I have identified the export-controlled material in this proposal.

If you answered, "YES" above, you must identify explicitly (e.g., figure number, paragraph reference), by statements or highlighting, those parts of the proposal that contain export-controlled material so that it can be redacted if necessary.

- ◯ Yes
- ◯ No
- ◯ N/A

13. I acknowledge that the inclusion of such material in this proposal may complicate the government's ability to evaluate the proposal.

While inclusion of export-controlled material in proposals is not prohibited, proposers are advised that inclusion of such material may complicate NASA's ability to evaluate proposals, as NASA may employ non-U.S. Persons, who are not lawful permanent residents of the U.S., to review proposals submitted to this solicitation.

- ◯ Yes
- ◯ No
- ◯ N/A

14. Does the proposed work include any involvement with collaborators in China or with Chinese organizations, or does the proposed work include activities in China?

NASA's appropriation from Congress includes this restriction: "None of the funds made available by this [law] may be used for the National Aeronautics and Space Administration or the Office of Science and Technology Policy to develop, design, plan, promulgate, implement, or execute a bilateral policy, program, order, or contract of any kind to participate, collaborate, or coordinate bilaterally in any way with China or any Chinese-owned company unless such activities are specifically authorized by a law enacted after the date of enactment of this division."

- ◯ Yes
- ◯ No

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The National Environmental Policy Act (NEPA) obligates NASA to consider the potential environmental effects of proposed projects, including those that NASA funds which are implemented by grantees. The

majority of grant-related activities are categorically excluded as research and development projects that do not pose adverse environmental impacts. The following questions enable NASA to ascertain whether your proposal will require additional NEPA analysis if selected (e.g., filling out an Environmental Checklist) or the completion of NASA's Executive Order (EO) 12114 Checklist for an activity to be conducted abroad. "Yes" responses are not selection criteria, however, if a "Yes" response is marked, proposers should consider NEPA and/or EO compliance in cost and schedule estimates.

15. Would the proposal involve any activity that includes: a. Construction of new facilities or modification to the footprint of an existing-facility, or b. Ground disturbance (e.g., excavation, clearing of trees, installation of equipment, etc.), or c. Outdoor discharges of water (e.g., waste water runoff), air emissions (e.g., ozone-depleting substances) or generation of noise exceeding 115 dBA (excluding those associated with aircraft operations)?

- ◯ Yes
- ◯ No

16. Would the proposal involve any field activity that would: a. Release equipment (e.g., dropsondes, sensors, etc.) or chemicals (e.g., dyes, tracers, etc.) into the air, bodies of water or on the ground, or b. Release a parachute or use equipment that would not be recovered, or c. Involve equipment or a payload that contains hazardous (e.g., petroleum, hypergols, oxidizers,solid propellants, etc.) or radioactive materials?

- ◯ Yes
- ◯ No

17. Would the proposal involve the launch of a payload, equipment, or instrument (e.g., via launch vehicle, sounding rocket, balloon, etc.)?

- ◯ Yes
- ◯ No

18. Would the proposal involve any activity to be conducted outside the United States or its territories excluding travel for meetings or conferences?

- ◯ Yes
- ◯ No

19. Comments (you can enter up to 4000 characters)

The Comments block below allows you to expand on any "Yes" responses to the NEPA questions above to provide context, background andperspective.

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20. Does this proposal contain a citizen science component?

Citizen Science is a form of "open collaboration" in which individuals or organizations participate voluntarily in the scientific process in various ways. Citizen science projects must be open to participation by new volunteers at some phase of the project, not limited to a pre-determined list of participants. Before submitting a citizen science proposal please read the Policy for SMD-funded citizen science projects which, along with examples of SMD citizen science projects, may be found at https://science.nasa.gov/citizen-science/. Questions about citizen science may be directed to Marc.J.Kuchner@nasa.gov.

- ◯ Yes

◯ No

21. AI or ML?

Would Artificial Intelligence (AI) or Machine-Learning (ML) tools be used or developed?

◯ Yes

◯ No

22. Would the results of this proposal advance the strategic objectives of more than one SMD Division?

The strategic objectives may be found at: https://science.nasa.gov/astrophysics/science-questions/, https://science.nasa.gov/planetary-science/science-questions/, https://science.nasa.gov/heliophysics/science-questions/, https://science.nasa.gov/earth-science/, https://science.nasa.gov/biological-physical/

◯ Yes

◯ No

23. If you checked yes, which Divisions?

** Check all that apply*

☐ Astrophysics

☐ Biological and Physical Sciences

☐ Earth Science

☐ Heliophysics

☐ Planetary Science

24. Interdivisional Explanation (you can enter up to 4000 characters)

If you checked yes, please add an explanation for your answers above. Your answer to this question will solely be used to understand the amount of interdivisional research proposed to ROSES. It will play no role in proposal evaluation or selection.

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25. Please select the primary discipline to which your proposed research responds to

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☐ Aquatic

☐ Atmospheric

☐ Terrestrial

☐ Cryospheric

☐ Other