## LA FY2020 Request for Pre-Proposals for



#### **TIMETABLE:**

Issue Date: Wednesday, May 15, 2019

Notice of Intent (required): Monday, July 15, 2019

Last day for Q&A about this solicitation: Monday, July 22, 2019

Pre-Proposals due: Friday, September 6, 2019

Anticipated Notification of Selection(s): November 2019





## LOUISIANA ESTABLISHED PROGRAM TO STIMULATE COMPETITIVE RESEARCH (EPSCoR)

Louisiana Board of Regents 1201 North Third Street, Suite 6-200 Baton Rouge, Louisiana 70802 (225) 342-4253

#### I. PROGRAM DESCRIPTION

#### I.A. OVERVIEW

This Request for Pre-Proposals (RFP) is being issued <u>in anticipation</u> of the release of the FY2020 NASA EPSCoR Cooperative Agreement Notice (CAN). The FY2020 CAN is expected to be similar to the previous CAN (FY19), number NNH18ZHA006C, which is available on the Louisiana NASA EPSCoR website: <a href="http://lanasaepscor.lsu.edu/research-implementation/">http://lanasaepscor.lsu.edu/research-implementation/</a> (you may have to copy and paste the link into your browser). It is highly recommended that you closely review last year's solicitation in advance of preparing your pre-proposal. We expect this year's will limit jurisdictions to one proposal. As soon as the new solicitation is released by NASA, we will make it available via our websites and email distribution lists.

This Pre-Proposal solicitation seeks proposals from Louisiana researchers, which will be reviewed by an external panel. The panel will recommend the most meritorious pre-proposal and one runner-up in case the top proposal falls through for any reason. The top ranked proposal will be further developed in collaboration with the LaSPACE/EPSCoR Management team at LSU and then submitted to NASA by the LA Board of Regents with the Louisiana Space Grant / NASA EPSCoR Director as Principal Investigator. The Pre-Proposal Principal Investigator will, in turn, be the Science Investigator (Science-I) on the LA BoR submission to NASA.

It is expected that NASA will issue the FY2020 CAN around November 2019 with proposals due 90 days after issuance. Therefore, this RFP has been issued with a timeline for proposal submissions that will allow as much time as possible for proposers to prepare applications, for the BOR's subsequent review process, and for final edits to the selected proposal submission.

For this proposal cycle, the Board of Regents funding will not be available prior to July 1, 2020. Due to the projected NASA solicitation cycle, we expect a July 1, 2020 start date to be a reasonable expectation.

Proposers should be aware that NASA's issuance of the CAN is not guaranteed. The BOR reserves the right to make adjustments to the timeline and other changes to the requirements contained in this RFP as needed to accommodate the instructions contained in the FY2020 CAN, if and when the solicitation is released by NASA.

For FY17-18 competition, NASA awarded 27 of the 54 submitted proposals. Both of Louisiana's proposals were successful with award funding beginning in 2018. For the FY19 competition 24 proposals were submitted to NASA and 16 were recommended for funding including the Louisiana submission. For FY20, the number of proposals accepted and level of funding awarded by NASA is dependent upon the budget scenario adopted. It is reasonable to expect that of ~26 proposals submitted, ~13 will likely be recommended for funding this year.

#### I.B OBJECTIVES

NASA EPSCoR proposals are expected to establish research programs that will make significant contributions to the strategic research and technology priorities of one or more of the four NASA Mission Directorates (MD) and/or one or more of the ten NASA field centers, and contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the State. A list of the research priorities for each MD and center was included in the FY19 NASA EPSCoR CAN solicitation. That list is on the LA NASA EPSCoR website (<a href="http://lanasaepscor.lsu.edu/research-implementation/">http://lanasaepscor.lsu.edu/research-implementation/</a>).

#### I.C ELIGIBILITY

Individuals holding a tenured, tenure-track, or research faculty position at any of Louisiana's public institutions of higher education, as well as accredited independent institutions of higher education that are members of the Louisiana Association of Independent Colleges and Universities, are eligible to submit pre-proposals under this solicitation. Individuals who are <u>not</u> employed by these institutions may serve as consultants; however, they may not be listed as investigators and must not be cited on the cover sheet of the pre-proposal. Direct labor costs will be allowed exclusively for faculty, staff, students, and visiting researchers at Louisiana Institutions. A faculty member may submit only one pre-proposal in response to this solicitation as Principal Investigator (PI), but may be a co-investigator on additional pre-proposals.

Science Pls/Institutional Pls who have been successful in the national competition (i.e. were selected by NASA) over the past 5 years (i.e. the FY2015, FY2016, FY2017, FY2018, & FY2019 competitions) <u>may not</u> propose as leads to this RFP. Pls who were selected to proceed to the national competition but were unsuccessful <u>may</u> re-propose to this RFP. However, in such a case the application must include a copy of, or summary of, the NASA reviewer's criticisms <u>plus</u> a discussion of how the re-submission has been re-structured to meet the reviewer's criticisms. This is over and above the page limits specified later.

#### I.D FINANCIAL CONSIDERATIONS

Based on the funding levels stipulated in the previous CAN, each proposal may request NASA funding of up to \$750,000 for a three-year project. The BOR will provide cost sharing at a 1:1 ratio to support the research project. Of the \$750,000 in NASA funds, \$40,000 per year (\$120,000 total) will be reserved for management of the project; therefore, for each proposed research project, the Science PI may request a maximum of \$630,000 in NASA funds and \$750,000 in BOR Support Funds (i.e., a maximum annual request of \$210,000 for NASA funds and \$250,000 for BOR Support Funds). Furthermore, the annual budgets for each research project should be held constant for all three years of the proposed project (i.e., budget requests for year one should equal the amounts requested in years two and three).

Applicants may consider methods of institutional cost sharing which would add value to the State's existing research capabilities. Also note that this program is designed to improve aerospace research capability in Louisiana and, consequently, funding should primarily support effort within the state. Funding allocated to researchers outside of the state is not recommended. If proposed, it should be minimal, must be well justified with compelling evidence that such an investment would still offer substantial permanent improvement to Louisiana's research infrastructure. A statement that funding to external sites would improve the probability of proposal selection would not be sufficient justification.

#### I.E. ASSESSMENT OF PRE-PROPOSALS AND PREPARATION OF FULL PROPOSALS

We hope to notify the PI of the pre-proposal selected by the panel by November 2019; we plan to also provide feedback from the panel reviewers and a plan for revisions and development of the final proposal. The PI of a successful pre-proposal is required to work closely with the NASA EPSCoR Project Director and Assistant Director (T. Gregory Guzik and Colleen H. Fava) and BOR staff to prepare the final proposal for submission by the BOR to NASA. Note that the Louisiana NASA EPSCoR Director, T. Gregory Guzik, will serve as the managing Principal Investigator (PI) for the award, providing leadership and administrative direction for the team from an oversight role. The Pre-Proposal PI will, in turn, serve as the Science-I and will be responsible for the scientific direction and day-to-day management of the proposed work. Together the PI and Science-I will be responsible for reporting, as required, to the BoR and NASA. This organizational

structure should be taken into account when developing the Pre-Proposal Management Plan. Full proposals completed by this team (with budgets approved by the Science-Pl's office of sponsored programs) will be due at the BOR on a date to be determined based on the due date for proposal submission to NASA (a minimum of 5 business days prior to the NASA due date).

#### **I.F.** TIMETABLE (DATES MAY CHANGE, SUBJECT TO REQUIREMENTS OF FY2020 CAN)

Monday, July 15, 2019	Notice of Intent due
Monday, July 22, 2019	Last day to submit questions about this solicitation
Friday, September 6, 2019	Pre-proposals due
~November 2019	Notice of LA Selection

#### I.G. QUESTIONS ABOUT THIS SOLICITATION

Specific questions concerning this solicitation and the requirements set forth herein should be directed **in writing** to Ms. Jessica Patton, Federal Programs Administrator, by email to <u>Jessica.Patton@REGENTS.LA.GOV</u>. Questions will be accepted and answered on an ongoing basis through **Monday**, **July 22**<sup>nd</sup>. A running compilation of all questions asked about this RFP and all answers provided in response to those questions will be periodically posted on the BOR website at <a href="https://web.laregents.org">https://web.laregents.org</a>.

#### I.H. RFP DOWNLOADS

Files associated with this RFP can be found on the Louisiana Board of Regents' Office of Sponsored Programs website (<a href="https://web.laregents.org/">https://web.laregents.org/</a>) and on the Louisiana NASA EPSCoR website: <a href="http://lanasaepscor.lsu.edu/research-implementation/">https://lanasaepscor.lsu.edu/research-implementation/</a>. These guidelines, the notice of intent, the pre-proposal template, and the budget form will all be available to download. Additionally, a number of critical supporting documents have been posted to the Louisiana NASA EPSCoR website page linked above. These include the official NASA EPSCoR CAN from cycle, a full list of abstracts for winning proposals from the last three fiscal years, a comprehensive listing of research priorities across NASA Mission Directorates and Centers, the current space technology roadmap, and a structural breakdown of the space technology areas. Additional resources will be posted as/if they become available, including the FY2019 solicitation. All revisions to the proposal will be made based on programmatic expertise from the LA NASA EPSCoR Management team and/or driven by recommendations from the review panel. Substantial changes driven by the PI or PI's institution will not be allowed. Significant change requests could result in deselection and movement to the runner up proposal.

#### II. PRE-PROPOSAL SUBMISSION AND FORMAT REQUIREMENTS

#### II.A. NOTICE OF INTENT (Required)

Before a pre-proposal will be accepted, a notice of intent (NOI) in portable document format (pdf) must be submitted by the PI no later than the close of business (4:30 p.m.) on **Monday**, **July 15**, **2019**.

All online submissions must be uploaded as a single PDF document (use form in Appendix B) through the LOGAN system. Notice of Intent submissions are a two-step process. Following PI submission, the NOI is routed to your employing institution for review, approval, and final submission to the Board of Regents office; **the Board does not receive and will not accept the NOI directly from the PI**. Deadlines listed in the RFP are absolute; all approved NOIs must be submitted by the campus and received by the Board on or before the published deadline. The NOI submission system will automatically close at 4:30 p.m. Central on the deadline date.

#### Instructions for PIs:

- Go to URL: <a href="https://web.laregents.org/logan/pi\_login.pl">https://web.laregents.org/logan/pi\_login.pl</a>
- Login using your LOGAN credentials.
- If you are new user and do not have a LOGAN login, please click on "New user registration" to register.
- If you have logged into LOGAN before and have forgotten your credentials please click "Forgot your password? Reset your account and receive a new system assigned password" to receive a new system-assigned password.
- After logging in, click on "Go >>" next to "LA NASA EPSCoR PreProposal Nol."
- Follow on-screen instructions to complete your proposal.
- Send completed proposal to the appropriate campus office by clicking "Send Proposal to OSP/OSR". A proposal reference number will be assigned after the proposal is successfully sent to the PI's Office of Sponsored Programs/Research.
- An email confirmation of submission to the campus will be sent to the PI with the proposal reference number.
- The OSP/OSR will review the proposal, and, if approved, submit the proposal to the Board of Regents.

#### Instructions for the OSP/OSR:

- Go to URL: https://web.laregents.org/logan/institutional\_login.pl
- Login using your Institutional credentials.
- Select "LA NASA EPSCoR PreProposal Nol."
- Follow on-screen instructions to submit the proposal to the Board of Regents' EPSCoR office.
- An email will be sent to both the PI and OSP/OSR to confirm successful submission of the proposal to the EPSCoR office.

If **both** the PI and the OSP/OSR do not receive confirmation emails within 4 hours, the NOI was not received. Please contact the LA EPSCoR office by phone at 225-342-4253 or by email at <a href="mailto:support@laregents.org">support@laregents.org</a>.

#### II.B. Type Size and Formatting

The project description must be formatted to a standard 8-1/2" x 11" page and have 1-inch top, bottom and side margins. The project description must be clear, readily legible, and conform to the following requirements:

- Must be formatted to a standard 8-1/2" x 11" page
- All pages are to be numbered consecutively
- Margins, in all directions, must be at least an inch
- No more than 5.5 lines of text within a vertical space of 1 inch
- Times New Roman at a font size of 12 points or larger for the body text
- A font size of less than 12 points may be used for mathematical formulas or equations, figure, table, or diagram captions and when using a Symbol font to insert Greek letters or special characters. Pls are cautioned, however, that the text must still be readable.

These format requirements refer only to the project description, not to the required forms attached to this RFP.

#### **II.C.** PRE-PROPOSAL ELEMENTS

The pre-proposal must contain the following elements, in the order presented here. A proposal template (keyed to the NASA EPSCoR FY19 CAN) with further details about the pre-proposal elements is provided in Appendix C. **We strongly suggest** you use this template to ensure all requirements are met and to allow for a greater uniformity of submissions.

Cover Page	1 page
Cover Sheet Form is provided in the template.	
Table of Contents	1pages
Proposal Summary (abstract)	4,000 characters (including spaces)
Data Management Plan	4,000 characters (including spaces)
Scientific/Technical/Management Plan (Proposal Body)	
<b>Project Overview:</b> Include a summary of the overall project, a description of the relevance of this project to NASA and the State of Louisiana, and list the major research tasks, project goals, objectives, and team structure.	
<b>Project Purpose:</b> Describe how the proposed research activities will make significant contributions to the strategic research and technology development priorities of one or more of the NASA Mission Directorates or Centers and will contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the State of Louisiana. Include alignment with the 2018 NASA Strategic Plan, as well as any additional Agency or federal/state government policy documents that this work aligns with.	14 Pages Maximum
<b>Goals and Objectives:</b> Clearly state goals and objectives for the proposed effort and provide a rationale for the research plan that will be used to achieve them.	
<b>Project Content:</b> Clearly describe the proposed effort and how the goals and objectives will be achieved. Provide an overview of the science background and ongoing work in this area. Detail the gaps in knowledge and the questions to be answered by your project. Follow with a detailed research plan which includes all major tasks and subtasks and clearly identifies the members of the project team working each task. Please note, when preparing a proposal that involves the use of human subjects, animals, hazardous materials, select agents, and/or recombinant DNA, the proposers will need to address applicable compliance issues in advance.	
Anticipated Results: Describe the anticipated results of the proposed effort.	
<b>Project Timeline and Milestones:</b> Include a project timeline table for achieving the stated goals and objectives, including significant milestones.	
Partnerships and Interactions: Describe any partnerships or cooperative arrangements among academia, government agencies, business and industry, private research foundations, jurisdiction agencies, and local agencies as well as partnerships with minority-serving institutions and the inclusion of faculty and students from underrepresented/underserved groups. Collaborations with NASA researchers and use of NASA facilities should be explicitly referenced here. We	

strongly encourage the inclusion of additional Louisiana campuses, especially HBCU's and those traditionally not research-intensive, as that will support the goal of infrastructure development across the jurisdiction.

**Sustainability:** Describe how the research capability will be sustained beyond the funding period. There should be a clear plan for sustaining the research beyond NASA EPSCoR funding and for seeking non-EPSCoR funding. Identify potential CAN's, NRA's, RFP's, etc., specifically as examples.

**Dissemination:** Outline the plan for disseminating the results to NASA and the broader community.

#### Management and Evaluation

This section shall describe the management structure for the proposed research, and coordination with the jurisdiction's NASA EPSCoR project management.

**Personnel:** Identify and summarize the roles and responsibilities of team members involved in the development and execution of proposed activities. The proposal shall include a list of the personnel participating in this research program, including Principal Investigator, Science-Investigator, and all Co-Investigators, Research Associates, Post-Doctoral Fellows, Research Assistants, and other research participants. The credentials of the researchers are important; however, EPSCoR includes the concept of encouraging and helping new researchers.

**Research Project Management:** A description of the Science-I's management structure of the proposed research project, and the extent to which the project's management and research team will lead to a well-coordinated, efficiently-managed, and productive effort shall be included.

**Project Evaluation:** Proposals shall document the intended outcomes and offer metrics to demonstrate progress toward and achievements of these outcomes. They shall discuss metrics to be used for tracking and evaluating project progress. Milestones and timetables for achievement of specific objectives during the award period shall be presented. The proposal shall describe an appropriate evaluation plan/process to document outcomes and demonstrate progress toward achieving objectives of proposed project elements. Evaluation methodology shall be based upon reputable models and techniques appropriate to the content and scale of the project. Projects shall implement improvements throughout the entire period of performance based on ongoing evaluation evidence.

Results of Prior NASA EPSCoR Research Support (Leave this section blank. The NASA EPSCoR Program Director will write this for the proposal selected to represent Louisiana): Examples of accomplishments commensurate with the managerial and administrative expectations of the award shall be provided. The EPSCoR Director will not be assessed on his/her expertise in the specific proposed research area since the Science-PI is tasked with managing the scientific/technical development progress. The following information shall be provided: the NASA EPSCoR award number(s), the title of the projects(s); and period(s) of performance; primary outcomes resulting from the NASA EPSCoR award, including a summary discussion of accomplishments compared to the proposed outcomes from the original proposal; coordination

As needed

with the research and technical development priorities of NASA, and	
contribution(s) to the overall research capacity of the jurisdiction.	
References and Citations	As needed
Biographical Sketches	As needed
Submit short CVs for key personnel using the following guidelines:  Science Investigator (Sc-I): maximum 2 pages each Co-Investigator (Co-I): 1 page	
Current and Pending Support (Sci-I & Co-Is)	As needed
Use BOR Form 1001CP included in the template. Current and Pending Support for PI and Co-Is must be provided. The NASA current and pending support form may be substituted.	
Statements of Commitment and Letters of Support	As needed
Letters of support from NASA collaborators and collaborators at other facilities who will be engaged in the research project.	
Budget Justification: Narrative and Details	As needed
Budget Narrative Please refer to Section 7 (budget) of the pre-proposal template in Appendix C, which includes some examples of acceptable descriptions for the various categories. All budget line items require detailed explanations without exception. NASA requires significantly more budget justification data than many other agencies, thus we created the template.	
<b>Budget Details</b> Follow the format and subsection headings included in Section 7 of the Template provided in Appendix C.	
Budget Form  Use Louisiana NASA EPSCoR Pre-proposal Budget Form included in the pre- proposal template (this form is also provided in MS Excel as a separate attachment). You should have a total of 4 completed budget forms per institution. Prepare a separate budget page for each of the 3 years, plus a cumulative budget page. On the Board of Regents funds F&A (indirect) is limited to 25% of total salaries, wages, and fringe benefits. Your institution's fully negotiated federal rate should be used on the NASA funds.	
Additional Notes See section 1.D of these guidelines for the limitations and requirements on the yearly and total NASA and BOR funding levels. Further, the pre-proposal template provides additional budget details (Appendix C).	
Dollar amounts proposed with no detailed explanation (e.g., Equipment: \$12,000, or Labor: \$35,000) will reduce proposal acceptability, or cause delays in funding should the proposal be selected. Each item should be explained in reasonable detail.	
Direct labor costs should be separated by titles or disciplines (e.g., Principal Investigator, graduate research assistant, clerical support, etc.) with estimated hours, hourly rates, and total amounts of each. Indirect costs should be sufficiently explained such that evaluators can understand the basis of the proposed costs.	

Foreign travel is allowable up to \$3,000/trip and a total of two trips (maximum \$6,000) for the entire jurisdiction's EPSCoR proposal (NASA and BOR funds). Requested foreign travel should include justification, purpose, the number of trips and expected location, duration of each trip, airfare, and per diem. We suggest, whenever possible, that all Subawards be costed entirely with either NASA funds or BoR funds, instead of being split across the two funding streams. This simplifies your subaward budgets and, in the event your project is selected for funding, greatly simplifies your project accounting. All costs to be incurred by NASA Centers on behalf of NASA EPSCoR for the use of facilities and contracted technical work should be identified in the research proposal funding request. In advance of proposal submission, proposers should contact NASA installations from which services will be requested in order to ascertain the availability and anticipated costs of such services. Salaries and travel of NASA civil servants is not allowed. Proposers are reminded that NASA projects cannot include collaboration with institutions in the People's Republic of China. **Summary of Previous Submittal** As needed Pls who were previously selected to proceed to the national competition but were unsuccessful may re-propose to this RFP. However, in such a case the application must include a copy of, or summary of, the NASA reviewer's criticisms plus a discussion of how the re-submission has been restructured to meet the reviewer's criticisms.

All NASA-EPSCoR pre-proposals will be reviewed by a panel of experts from outside Louisiana. The reviewers will evaluate the proposals based on the evaluation criteria established in the FY2019 CAN issued by NASA (or the FY20 criteria, if released before our review period commences). The evaluation criteria set forth in the 2019 NASA-EPSCoR CAN is reproduced here in Appendix A. Proposers are advised to review said criteria as they prepare their proposals.

#### II.E. SUBMISSION OF PRE-PROPOSAL

The pre-proposal must be submitted to the Board of Regents by the submitting institution's authorized representative no later than the close of business (4:30 p.m.) **Friday, September 6, 2019.** All online submissions must be uploaded as a single PDF document through the LOGAN system. Proposal submission is a two-step process. Following PI submission, the proposal is routed to your employing institution for review, approval, and final submission to the Board of Regents' EPSCoR office; the Board does not receive and will not accept the proposal directly from the PI. Deadlines listed in the RFP are absolute; all approved proposals must be submitted by the campus and received by the Board on or before the published proposal deadline. The proposal submission system will automatically close at 4:30 p.m. Central on the deadline date.

#### Instructions for PIs:

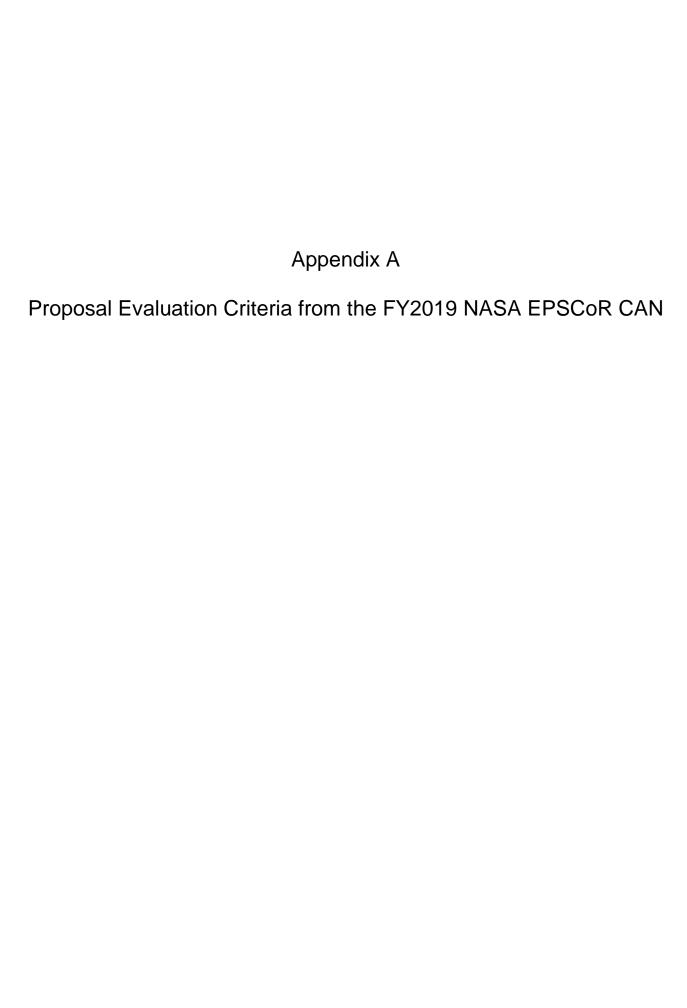
- Go to URL: https://web.laregents.org/logan/pi\_login.pl
- Login using your LOGAN credentials.
- If you are new user and do not have a LOGAN login, please click on "New user registration" to register.

- If you have logged into LOGAN before and have forgotten your credentials please click "Forgot your password? Reset your account and receive a new system assigned password" to receive a new system-assigned password.
- After logging in, click on "Go >>" next to "LA NASA EPSCoR PreProposal".
- Follow on-screen instructions to complete your proposal.
- Send completed proposal to the appropriate campus office by clicking "Send Proposal to OSP/OSR". A proposal reference number will be assigned after the proposal is successfully sent to the PI's Office of Sponsored Programs/Research.
- An email confirmation of submission to the campus will be sent to the PI with the proposal reference number.
- The OSP/OSR will review the proposal, and, if approved, submit the proposal to the Board of Regents.

#### Instructions for the OSP/OSR:

- Go to URL: https://web.laregents.org/logan/institutional\_login.pl
- Login using your Institutional credentials.
- Select "LA NASA EPSCoR PreProposal".
- Follow on-screen instructions to submit the proposal to the Board of Regents' EPSCoR office.
- An email will be sent to both the PI and OSP/OSR to confirm successful submission of the proposal to the EPSCoR office.

If **both** the PI and the OSP/OSR do not receive confirmation emails within 4 hours, the proposal was not received. Please contact the LA EPSCoR office by phone at 225-342-4253 or by email at <a href="mailto:support@laregents.org">support@laregents.org</a>.



#### NASA-EPSCoR FY2019 Can Evaluation Criteria

The proposal evaluation criteria included in the FY2019 NASA-EPSCoR CAN is provided here as an example of how proposals might be evaluated for FY 2020. Overall the last several years, this criteria has remained relatively steady with slight changes in language and/or focus. Please consider these criteria carefully as you develop your project proposal.

#### 8.0 Proposal Evaluation Criteria and Selection Process

Successful research proposals shall provide sound contributions to both immediate and long-term scientific and technical needs of NASA, as explicitly expressed in current NASA documents and communications, as well as contribute to the overall research infrastructure, science and technology capabilities of higher education, and economic development of the jurisdiction. Successful proposals shall also include pragmatic plans for generation of sustained non-EPSCoR support.

Jurisdictions responding to this CAN may submit proposals per paragraph 1.3 above. Proposals will be evaluated based on the following criteria: Intrinsic Merit, NASA Alignment and Partnerships, Management and Evaluation, and Budget Justification: Narrative and Details. The bulleted lists after each criterion below should not be construed as any indication of priority or relative weighting. Rather, the bullets are provided for clarity and facilitation of proposal development. Note: Each proposer shall provide specific information on how it determined the relevance of the proposed effort to NASA and the jurisdiction.

#### 8.1 Intrinsic Merit (35% of score)

- Proposed Research. Proposals shall provide a detailed narrative of the proposed research activity, including the scientific and/or technical merit of the proposed research, unique and innovative methods, approaches, concepts, or advanced technologies, and the potential impact of the proposed research on its field.
- Existing Research Proposals shall provide baseline information about current research activities within the jurisdiction in the proposed research area, including projects currently funded under NASA EPSCoR. If relevant, the narrative shall include a brief history of NASA EPSCoR Research projects in the jurisdiction, and shall include a discussion of how these previous NASA EPSCoR research projects or Research Infrastructure Development (RID) activities have helped prepare the institution and jurisdiction for and contributed to the proposed research activities. If the proposed research represents a new direction for the jurisdiction, the technical team's ability to conduct the research shall be explained. Other relevant research and technology development programs within the jurisdiction shall also be included.

#### 8.2 NASA Alignment and Partnerships (35% of score)

- Proposals shall discuss the value of the proposed research to NASA and to the jurisdiction's research priorities.
- Proposals shall describe the use of NASA content, people, or facilities in the execution of the research activities. They should describe current and/or previous interactions, partnerships, and meetings with NASA researchers, engineers, and scientists in the area of the proposed research, and discuss how future partnerships between the institution's researchers and personnel at the Mission Directorates, Centers, and/or JPL will be fostered. The name(s) and title(s) of NASA researchers with whom the proposers will partner shall be included. NASA shall consider the utilization of NASA venues for recipients to publish their accomplishments.
- Proposals shall articulate clearly how the proposed research activities build capacity in the jurisdiction. In particular, proposers shall explain how this proposed research is related to the strategic plan for NASA EPSCoR-related research in the jurisdiction.
- Proposals shall state how they plan to develop research competitiveness both in the jurisdiction and nationally. Proposals shall delineate mechanisms for building partnerships with universities, industry, and/or other government agencies to enhance the ability of the jurisdiction to achieve its objectives, to

obtain and leverage sources of additional funding, and/or to obtain essential services not otherwise available.

#### 8.3 Management and Evaluation (15% of score)

NOTE: This information does not count toward the 15-page limit for the Scientific, Technical, or Management section.

- Personnel: The proposal shall include a list of the personnel participating in this research program, including Principal Investigator, Science-Investigator, and all Co-Investigators, Research Associates, Post-Doctoral Fellows, Research Assistants, and other research participants. The credentials of the researchers are important; however EPSCoR includes the concept of encouraging and helping new researchers.
- Research Project Management: A description of the Science-I's management structure of the proposed research project, and the extent to which the project's management and research team will lead to a well-coordinated, efficiently-managed, and productive effort shall be included.
- Multi-Jurisdiction Projects: If the proposed research is a collaboration between more than one NASA EPSCoR jurisdiction, one jurisdiction shall be identified as the lead with additional partners identified as sub-awardees. The proposal shall detail the inter-jurisdiction management structure of the proposed research project, including a list of the participating jurisdictions, and the participating universities and agencies within each jurisdiction. Multi-jurisdictional proposals shall not exceed the \$750,000 limit.
- Project Evaluation: Proposals shall document the intended outcomes and offer metrics to demonstrate progress toward and achievements of these outcomes. They shall discuss metrics to be used for tracking and evaluating project progress. Milestones and timetables for achievement of specific objectives during the award period shall be presented. The proposal shall describe an appropriate evaluation plan/process to document outcomes and demonstrate progress toward achieving objectives of proposed project elements. Evaluation methodology shall be based upon reputable models and techniques appropriate to the content and scale of the project. Projects shall implement improvements throughout the entire period of performance based on ongoing evaluation evidence.
- Results of Prior NASA EPSCoR Research Support: Examples of accomplishments commensurate with the managerial and administrative expectations of the award shall be provided. The EPSCoR Director will not be assessed on his/her expertise in the specific proposed research area since the Science-PI is tasked with managing the scientific/technical development progress. The following information shall be provided: the NASA EPSCoR award number(s), the title of the projects(s); and period(s) of performance; primary outcomes resulting from the NASA EPSCoR award, including a summary discussion of accomplishments compared to the proposed outcomes from the original proposal; coordination with the research and technical development priorities of NASA, and contribution(s) to the overall research capacity of the jurisdiction.

#### 8.4 Budget Justification: Narrative and Details (15%)

The proposed budget shall be adequate, appropriate, reasonable, and realistic, and demonstrate the effective use of funds that align with the content and text of the proposed project. Preparation guidelines for the budget can be found in the NASA Guidebook for Proposers, Section 3.18 and Appendix C.

A detailed budget, including both NASA provided and cost-share funds, is required. This section shall include detailed budgets for each of the three years of the funding and a summary budget for all three years. All sources of cost-sharing shall be thoroughly described and documented.

The budget will be evaluated based upon the clarity and reasonableness of the funding request. A budget narrative shall be included that discusses relevant budgetary issues such as the extent and level of jurisdiction, industrial, and institutional commitment and financial support, including resources (staff, facilities, laboratories, indirect support, waiver of indirect costs, etc.).

# Appendix B FY2020 Pre-Proposal Notice of Intent Form

## NOTICE OF INTENT: FY2020 LA NASA EPSCoR Pre-proposal (Page 1 of 2)

NAME OF PRINCIPAL INVESTIGATOR (PI):	NAME OF LEAD ORGANIZATION:
PIDEPARTMENT	PI PHONE NUMBER and EMAIL ADDRESS
TITLE OF PROPOSED PROJECT:	
LIST PARTICIPATING INSTITUTIONS/CAMPUSES:	
LIST PROJECT DISCIPLINES:	
THE PROPOSED WORK WILL SUPPORT THE RESEARCH PRIORITIES (	OF THE FOLLOWING NASA DIRECTORATES AND/OR NASA FIELD CENTERS:
PROJECT ABSTRACT (maximum 250 words):	
NAMES of OTHER INVESTIGATORS	INSTITUTION/DEPARTMENT
CO-I	
CO-I	
CO-I	
CO-I	

## Appendix C

Pre-Proposal Template for FY2020 NASA / LA BOR EPSCoR CAN

## Cover Sheet: FY2020 NASA EPSCoR Pre-proposal

FOR CONSIDERATION BY BOR OF Sponsored Progra		NITS(S)					
PROGRAM ANNOUNCEMENT NASA EPSCOR							
NAME OF LEAD ORGANIZATION:			ADDR	ESS OF LEAD ORGANIZ	ATION, INC	LUDING ZII	CODE:
PI DEPARTMENT			PI PO	STAL ADDRESS			
TITLE OF PROPOSED PROJECT:							
REQUESTED AMOUNT, YR 1:	REQUESTED A		\$			EQUESTED:	
START DATE, YR 1: 07/01/20 LIST PARTICIPATING INSTITUTION	START DATE, YNS/CAMPUSES:	YR 2: 07/01/2	.1	START DATE, YR 3: 07/	01/22	TOTAL PE	ERIOD: 07/01/20-06/30/23
LIST PROJECT DISCIPLINES:							
NAMES (TYPED)		Highest Deg		Telephone Number	Email Addı	ress	
PRINCIPAL INVESTIGATOR (PI)							
CO-I							
CO-I							
CO-I							
CO-I			_				

## **Proposal Summary (Abstract)**

Abstract is limited to 4,000 characters (including spaces) by NASA. This equates to roughly 500 words / 1 page of single spaced text.

## **Data Management Plan**

Data management plan is limited to 4,000 characters (including spaces) by NASA. This equates to roughly 500 words / 1 page of single spaced text.

## **Project Title**

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#### 1. Scientific / Technical / Management Plan

[Section 1 is not to exceed 14 pages, including all illustrations, tables, and figures]

#### 1.1 Project Overview

Include a summary of the overall project, a description of the relevance of this project to NASA and the State of Louisiana, and list the major research tasks, project goals, objectives, and team structure.

#### 1.2 PROJECT PURPOSE

Describe how the proposed research activities will make significant contributions to the strategic research and technology development priorities of one or more of the NASA Mission Directorates or Centers and will contribute to the overall research infrastructure, science and technology capabilities, higher education, and economic development of the State of Louisiana. Include alignment with the 2018 NASA Strategic Plan, as well as any additional Agency or federal/state government policy documents that this work aligns with.

#### 1.2.1 Relevance to NASA

Describe how the proposed research activities will make significant contributions to the strategic research and technology development priorities of one or more of the NASA Mission Directorates, the OCT, and the ten NASA Centers.

#### 1.2.2 Relevance to Louisiana

Describe how the proposed research activities will make significant contributions to the overall research infrastructure, science and technology capabilities, higher education, and economic development of Louisiana. Describe partnerships with other campuses, and how their involvement will serve to develop the research infrastructure in our jurisdiction.

#### 1.3 GOALS AND OBJECTIVES

Clearly state goals and objectives for the proposed effort and provide a rationale for the research plan that will be used to achieve them.

#### 1.4 PROJECT CONTENT

Clearly describe the proposed effort and how the goals and objectives will be achieved. Provide an overview of the science background and ongoing work in this area. Detail the gaps in knowledge and the questions to be answered by your project.

Follow with a detailed research plan which includes all major tasks and subtasks and clearly identifies the members of the project team working each task. *Please note, when preparing a proposal that involves the use of human subjects, animals, hazardous materials, select agents, and/or recombinant DNA, the proposers will need to address applicable compliance issues for the pre-proposal. Not addressing these issues in your description, including obtaining approval from relevant committees, will preclude any review of your submission.* 

#### 1.5 ANTICIPATED RESULTS

Clearly describe the anticipated results for the proposed effort.

#### 1.6 PROJECT TIMELINE AND MILESTONES

Include a project timeline table for achieving the stated goals and objectives, including significant milestones. Provide a narrative description of particular milestones planned for each year.

#### 1.7 PARTNERSHIPS AND INTERACTIONS

Describe any partnerships or cooperative arrangements among academia, government agencies, business and industry, private research foundations, jurisdiction agencies, and local agencies as well as partnerships with minority-serving institutions and the inclusion of faculty and students from underrepresented/underserved groups. Collaborations with NASA researchers and use of NASA facilities should be explicitly referenced here. We strongly encourage the inclusion of additional Louisiana campuses, especially HBCU's and those traditionally not researchintensive, as that will support the goal of infrastructure development across the jurisdiction.

#### 1.8 Sustainability

Describe how the research capability will be sustained beyond the funding period. There should be a clear plan for sustaining the research beyond NASA EPSCoR funding and for seeking non-EPSCoR funding. Identify potential CAN's, NRA's, RFP's, etc., specifically as examples.

#### 1.9 Dissemination

Outline the plan for disseminating the results to NASA and the broader community.

#### 2. Management and Evaluation

This section shall describe the management structure for the proposed research, and coordination with the jurisdiction's NASA EPSCoR project management.

#### 2.1 Personnel

Identify and summarize the roles and responsibilities of team members involved in the development and execution of proposed activities. The proposal shall include a list of the personnel participating in this research program, including Principal Investigator, Science-Investigator, and all Co-Investigators, Research Associates, Post-Doctoral Fellows, Research Assistants, and other research participants. The credentials of the researchers are important; however, EPSCoR includes the concept of encouraging and helping new researchers.

#### 2.2 RESEARCH PROJECT MANAGEMENT

A description of the Science-I's management structure of the proposed research project, and the extent to which the project's management and research team will lead to a well-coordinated, efficiently-managed, and productive effort shall be included.

#### 2.3 PROJECT EVALUATION

Proposals shall document the intended outcomes and offer metrics to demonstrate progress toward and achievements of these outcomes. They shall discuss metrics to be used for tracking and evaluating project progress. Milestones and timetables for achievement of specific objectives during the award period shall be presented. The proposal shall describe an appropriate evaluation plan/process to document outcomes and demonstrate progress toward achieving objectives of proposed project elements. Evaluation methodology shall be based upon reputable models and techniques appropriate to the content and scale of the project. Projects shall implement improvements throughout the entire period of performance based on ongoing evaluation evidence.

#### 2.4 RESULTS OF PRIOR NASA EPSCOR RESEARCH SUPPORT

(Leave this section blank. The NASA EPSCoR Program Director will write this for the proposal selected to represent Louisiana)

## 3. References and Citations

Include references and citations made in the body of the proposal here.

#### 4. Biographical Sketches

[Submit short CVs for key personnel using the following guidelines: **Science-PI:** maximum 2 pages; **Co-I/Institutional-PI:** 1 page] *Note: NASA does not allow Co-PI's in any role.* 

Provide the following information for the senior personnel on the project. Begin with the Principal Investigator. **DO NOT EXCEED 2 PAGES PER PERSON.** 

- A. Vitae, listing professional and academic essentials and mailing address.
- B. List up to 5 publications most closely related to the proposed project and up to 5 other significant publications, including those being printing. Patents, copyrights, or software systems developed may be substituted for publications. Do not include additional lists of publications, invited lectures, etc. Only the list of up to 10 will be used in merit review.
- C. List of persons, other than those cited in the publication list, who have collaborated on a project or a book, article, report or paper within the last 48 months, including collaborators on this proposal. If there are no other collaborators, please indicate that fact.
- D. Names of graduate and post-graduate advisors and advisees.

The information in C. and D. is used to help identify potential conflicts or bias in the selection of reviewers.

### 5. Current and Pending Support

The following information MUST be provided for each investigator and other senior personnel. Use additional sheets as necessary. Complete Form 1001CP, provided on the following page. List support from ALL sources, including BOR Support Fund.

#### NAME OF INVESTIGATOR:

Status of Support:CurrentPendingSubmission Planned in Near Future
Project/Proposal Title:
Source of Support:
Award Amount (or Annual Rate): \$ Period Covered:
Location of Activity:
Person-Months or % of Effort Committed to the Project:Cal YrAcadSumm
Status of Support:CurrentPendingSubmission Planned in Near Future
Project/Proposal Title:
Source of Support:
Award Amount (or Annual Rate): \$ Period Covered:
Location of Activity:
Person-Months or % of Effort Committed to the Project:Cal YrAcadSumm
Status of Support:CurrentPendingSubmission Planned in Near Future
Project/Proposal Title:
Source of Support:
Source of Support:  Award Amount (or Annual Rate): \$  Location of Activity:
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Source of Support:  Award Amount (or Annual Rate): \$ Period Covered:  Location of Activity:  Person-Months or % of Effort Committed to the Project:Cal YrAcadSumm  Status of Support:CurrentPendingSubmission Planned in Near Future  Project/Proposal Title:  Source of Support:
Source of Support:  Award Amount (or Annual Rate): \$ Period Covered:  Location of Activity:  Person-Months or % of Effort Committed to the Project: Cal Yr Acad Summ  Status of Support: Current Pending Submission Planned in Near Future  Project/Proposal Title:
Source of Support:  Award Amount (or Annual Rate): \$ Period Covered:  Location of Activity:  Person-Months or % of Effort Committed to the Project:Cal YrAcadSumm  Status of Support:CurrentPendingSubmission Planned in Near Future  Project/Proposal Title:  Source of Support:

## 6. Statements of Commitment and Letters of Support

Letters of support should be included here.

#### 7. Budget Justification: Narrative and Details

#### 7.1 BUDGET NARRATIVE

[Budget Narrative/Details: All budget line items require detailed explanations without exception. We have created the following budget narrative template with some examples of acceptable descriptions for the various categories. This section must be duplicated for all sub-awardees.]

Include a brief (1-3 paragraph) narrative description of the funding structure and participating institutions, including NASA-EPSCoR, Louisiana BOR, the lead institution, and any sub-award institutions. Include a high-level table identifying contributions of the three funding sources (NASA, LA BOR, Institutions) for each of the years of the research project. In developing the project budget note the limitations and requirements as specified in section 1.D, Financial Considerations of the LA BOR / NASA EPSCoR Request for Pre-Proposal guidelines. This program is intended to improve research capability in Louisiana and, consequently, costs should primarily support effort within the state. Direct labor costs will be allowed exclusively for faculty, staff, students, and visiting researchers at Louisiana Institutions.

#### 7.1.1 Summary of Proposal Personnel and Work Effort

Include a table of anticipated work effort in (person-months) for each year of the research project. Example Table below.

Name	Role	Person- Months Year 1	Person- Months Year 2	Person- Months Year 3				
Lead Institution Name								
Jane C. Smith	CO-I, Science PI, Institution-PI	1.0	1.0	2.0				
John B. Doe	Co-I	1.0	1.0	1.0				
To be named	Post-doctoral Associate	12	12	12				
Graduate Students (3 per year)	Student	18	18	18				
Undergraduate students (up to 5 per year)	Student	15	15	15				
Sub-Award Institution Name								
James Smith	Co-I, Instution-PI	1.0	1.0	1.0				
Graduate Student (1)	Student	6	6	6				
Undergraduate Student (3)	Student	6	6	6				

Note: You must describe exactly how person-months/years are calculated for students

#### 7.1.2 Facilities and Equipment

#### Existing Facilities and Equipment

Provide a 1-paragraph description of each facility (faculty labs, departmental labs, general department facilities). Follow each paragraph description with a list of all major equipment available to support this project, as needed.

#### Additional Facilities and Equipment to be Acquired using Project Funds

Identify any additional space or general equipment that will be acquired for this project in a brief narrative description (1 to 3 paragraphs). [Detailed descriptions of all proposed equipment / facility costs must be included in the detailed budget section.]

#### 7.1.3 Cost Methodology

Provide a brief (1-3 sentences) description of the method used to estimate the following cost categories.

- Salaries and Wages
- Equipment
- Materials and Supplies
- Travel
- Other Applicable Costs (Operating Services)

#### 7.2 BUDGET DETAILS – LEAD INSTITUTION

[Dollar amounts proposed with no detailed explanation (e.g., Equipment: \$12,000, or Labor: \$35,000) will reduce proposal acceptability, or cause delays in funding should the proposal be selected. Each item should be explained in reasonable detail.]

Provide a summary table of the lead institution's budget by major cost category as indicated below.

"Project Title," Lead Institution Name: Budget Summary by Major Category

Category	Year 1		Year 2		Year 3		
	NASA+BOR	Institution	NASA+BOR	Institution	NASA+BOR	Institution	
Direct Labor							
Other Direct Costs:							
Supplies & Materials							
Equipment							
Travel Costs							
Sub-Award Costs							
Other Applicable Costs							
Total Direct Costs							
F&A (Indirect) Costs							
Total Project Costs							

Note that in each of the "Detail" subsections below, you need to specify the costs allocated to NASA funds separately from those allocated to the BOR Support Funds, and those allocated to the institutional cost share. Your numbers for each year need to be shown to sum to the totals listed on the section 6.4 Budget Form for each column, "NASA Funds Requested", "Non-Federal Match BOR", "Non-Federal Match Institutional", for each year, Year 1, Year 2, Year 3, and Combined.

#### Direct Labor Detail

Direct labor costs should be separated by titles or disciplines (e.g., Principal Investigator, Co-Investigator, Collaborator, Research Associate, graduate or undergraduate research assistant, etc.) with estimated hours, hourly rates, or monthly rates and total amounts of each. Identify all faculty, staff, and students to be supported. Direct labor costs will be allowed exclusively for faculty, staff, and students at Louisiana Institutions. List amounts for each year for each one you list. Also provide brief summaries of the primary responsibilities for each of the categories. Specifically, mention what each Investigator will be responsible for, what research any post-docs or graduate students will perform, and what kind of work undergraduate students might complete. Document fringe benefits (rates & totals) and lastly, summarize the yearly totals for wages, salaries, and benefits.

#### Supplies & Materials Detail

Organized by year, identify amounts followed by a brief description (with concrete examples) of typical supplies required to conduct your research project. Pay special attention to high-cost materials and supplies (e.g. Platinum substrates or the like). Cite sources for cost estimates (vendor quote, website price listing, previous orders, etc). Supplies and Material is an area where NASA

often requested additional information resulting in delaying implementation of the award. Therefore, it is highly recommended that you provide as much information here as you reasonably can.

#### Equipment Detail

Organized by year, identify all equipment to be purchased for this project. For each piece of equipment, included the name of the equipment, model number & brand, supplier cost quote or website price, and 1-2 sentences describing what the equipment does and how it will be used in the project. The source of the cost estimate **must** be included.

#### Travel Detail

Separate domestic and foreign travel, and then identify fund amounts and funding sources by year. Include visits to NASA Centers and relevant technical conferences. For each trip list: purpose, destination, number of travelers, airfare, per diem, registration, local transportation, and miscellaneous. If exact location of travel is not known, select a probable destination for the estimate.

Requested domestic travel should include purpose, the number of trips and expected location, duration of each trip, airfare, rental vehicle (if needed), and per diem. There is no limit placed on domestic travel. Domestic travel should be appropriate and reasonable to conduct the proposed research.

Foreign travel is allowable up to \$3,000/trip and a total of two trips (maximum \$6,000) for the entire jurisdiction's EPSCoR proposal (NASA and BOR funds). Requested foreign travel should include justification, purpose, the number of trips and expected location, duration of each trip, airfare, rental vehicle (if needed), and per diem.

#### Sub-Award Detail

This section should describe all sub-awards anticipated to be funded by the lead institution. Include the institution name, project role, yearly funding level, and total funding level for each collaborating institution receiving an award.

In addition, starting at section 7.4 each sub-award proposed must include a cover sheet, a statement of work for the sub-award institution, and a complete budget section (four total budget forms and the same budget details specified here). Sub-award packages should be approved and signed by the receiving institution prior to submission of the pre-proposal.

#### Other Applicable Costs Detail

List any additional allowable costs to be covered by NASA, BOR, and/or your institution, such as consultants, preparing manuscripts, and F&A (indirect) costs. Organize by year and identify amounts with funding agencies.

#### F&A (Indirect) Costs

Include rates and the base, plus total cost. Note that for this proposal, F&A (indirect) is limited to 25% of total salaries, wages, and fringe on funds from the Board of Regents; your campus's federally negotiated rate applies for the funds requested from NASA. Include reference or copy of the letter that specifies your institution's current federally negotiated F&A and fringe benefits rates. If you plan to escalate your fringe or F&A rate over the three years of the proposed budget, that escalation rate should be described in your documentation.

#### Institutional Contribution

The cost-share requirement for NASA is covered by the Board of Regents matching funds. Therefore, institutional match funds are not required and should only be included if there is a clear value-add. All institutional contributions need to be listed and described here. Unrecovered F&A used as an institutional contribution must be explained, including a calculation as to how the amount is obtained. All institutional contributions should be sufficiently explained such that evaluators can understand the basis of the proposed costs.

#### 7.3 BUDGET DETAILS – SUBAWARDS

For all anticipated Sub-Award Institutions, the items listed below are to be included on the following pages.

#### Cover Sheet

With authorized institutional signature.

#### Statement of Work

Summary of the work to be completed by the collaborating institution.

#### **Budget Details**

Budget Details for Subawards must be included just as described in the previous section for the lead institution.

#### 7.4 BUDGET FORMS

[Budget Form: Use the Louisiana NASA EPSCoR Pre-proposal Budget Forms that follow this page (this form is also provided in MS Excel as a separate attachment). You should have a total of 4 completed budget forms per institution. Prepare a separate budget page for each of the 3 years, plus a cumulative budget page. A budget justification must be included. F&A (indirect) recovery is limited to 25% of total salaries, wages, and fringe benefits on BoR funds; use your negotiated federal rate on NASA funds. This section must be duplicated for all sub-awardees.]

Louisiana NASA EPSCoR Pre-proposal Budget Form Year 1

PRC	DJECT TITLE:	PROJECT YEAR: (circle one)				
		1 2		3	combined	
PRII	NCIPAL INVESTIGATOR:	ORGANIZATION	<b>1</b> :			
1	SALARY COSTS	NASA Funds			Non-Federal	Match
		Requested			BOR	Institutional
	1					
	2					
	3					
	4					
	5 Graduate Student Support					
	6 Undergraduate Student Support					
	TOTAL PERSONNEL					
2	FRINGE BENEFITS					
	(if charged as direct costs) Specify Rate:					
3	TOTAL WAGES, SALARIES, BENEFITS					
	(1+2)					
4	SUPPLIES & MATERIALS					
5	EQUIPMENT					
	(List item & dollar amount for items exceeding \$1,000)					
			-			T
	Total Permanent Equipment					
6	TRAVEL COSTS					
	Domestic (Incl. Canada & U. S. possessions.)					
	Foreign					
7	PUBLICATION & REPORT COSTS					
8	SUBAWARD COSTS					
9	CONSULTANT COSTS					
10	COMMUNICATION COSTS					
11	OTHER DIRECT COSTS					
12	TOTAL DIRECT COSTS					
13	INDIRECT COSTS (Specify rates.)					
	1. Federal: XX% of line 3					
	2. BOR: 25% of line 3					
	3. Institutional: (specify rate)					
	Total Indirect Costs					
	TOTAL PROJECT COSTS (12 + 13)					
14		I				1

Louisiana NASA EPSCoR Pre-proposal Budget Form Year 2

PRC	DJECT TITLE:	PROJECT YEAR: (circle one)			
		1 2	3	combined	I
PRII	NCIPAL INVESTIGATOR:	ORGANIZATION:			
1	SALARY COSTS	NASA Funds		Non-Federal	Match
		Requested		BOR	Institutional
	1				
	2				
	3				
	4				
	5 Graduate Student Support				
	6 Undergraduate Student Support				
	TOTAL PERSONNEL				
2	FRINGE BENEFITS		1		ı
	(if charged as direct costs) Specify Rate:				
3	TOTAL WAGES, SALARIES, BENEFITS		1		T
	(1+2)				
4	SUPPLIES & MATERIALS				
5	EQUIPMENT				
	(List item & dollar amount for items exceeding \$1,000)				
			T		1
	Total Permanent Equipment				
6	TRAVEL COSTS				
	Domestic (Incl. Canada & U. S. possessions.)				
	Foreign				
7	PUBLICATION & REPORT COSTS				
8	SUBAWARD COSTS				
9	CONSULTANT COSTS				
10	COMMUNICATION COSTS				
11	OTHER DIRECT COSTS				
12	TOTAL DIRECT COSTS				
13	INDIRECT COSTS (Specify rates.)				
	1. Federal: XX% of line 3				
	2. BOR: 25% of line 3				
	3. Institutional: (specify rate)				
	Total Indirect Costs				
	TOTAL PROJECT COSTS (12 + 13)				
14					İ

Louisiana NASA EPSCoR Pre-proposal Budget Form Year 3

		PROJECT `	YEAR: (c	ircle one	)	
PRC	DJECT TITLE:	1	2	(3)	combined	
DDII	NCIPAL INVESTIGATOR:	ORGANIZA	TIONI			
FIXII	NOIFAL INVESTIGATOR.	ORGANIZA	TION.			
1	SALARY COSTS	NASA F	unds		Non-Federal	Match
		Reques	sted		BOR	Institutional
	1					
	2					
	3					
	4					
	5 Graduate Student Support					
	6 Undergraduate Student Support					
	TOTAL PERSONNEL					
2	FRINGE BENEFITS					
	(if charged as direct costs) Specify Rate:					
3	TOTAL WAGES, SALARIES, BENEFITS					
	(1+2)					
4	SUPPLIES & MATERIALS					
5	EQUIPMENT					
	(List item & dollar amount for items exceeding \$1,000)					
				1		T
	Total Permanent Equipment					
6	TRAVEL COSTS					
	Domestic (Incl. Canada & U. S. possessions.)					
	Foreign					
7	PUBLICATION & REPORT COSTS					
8	SUBAWARD COSTS					
9	CONSULTANT COSTS					
10	COMMUNICATION COSTS					
11	OTHER DIRECT COSTS					
12	TOTAL DIRECT COSTS					
13	INDIRECT COSTS (Specify rates.)					
	1. Federal: XX% of line 3					
	2. BOR: 25% of line 3					
	3. Institutional: (specify rate)					
	Total Indirect Costs					
	TOTAL PROJECT COSTS (12 + 13)			1		
14				1		

Louisiana NASA EPSCoR Pre-proposal Budget Form Combined 3 Years

PROJECT TITLE:		PROJECT YEAR: (circle one)					
		1	2	3	combined		
PRINCIPAL INVESTIGATOR:		ORGANIZATION:					
1	SALARY COSTS	NASA Funds			Non-Federal Match		
		Reque	sted		BOR	Institutional	
	1						
	2						
	3						
	4						
	5 Graduate Student Support						
	6 Undergraduate Student Support						
	TOTAL PERSONNEL						
2	FRINGE BENEFITS			_			
	(if charged as direct costs) Specify Rate:						
3	TOTAL WAGES, SALARIES, BENEFITS						
	(1+2)						
4	SUPPLIES & MATERIALS						
5	EQUIPMENT						
	(List item & dollar amount for items exceeding \$1,000)						
				,		1	
	Total Permanent Equipment						
6	TRAVEL COSTS					l.	
	Domestic (Incl. Canada & U. S. possessions.)						
	Foreign						
7	PUBLICATION & REPORT COSTS						
8	SUBAWARD COSTS						
9	CONSULTANT COSTS						
10	COMMUNICATION COSTS						
11	OTHER DIRECT COSTS						
12	TOTAL DIRECT COSTS						
13	INDIRECT COSTS (Specify rates.)					<u> </u>	
13	Federal: XX% of line 3						
	2. BOR: 25% of line 3						
	3. Institutional: (specify rate)						
-	Total Indirect Costs TOTAL PROJECT COSTS (12 + 13)			-			
14	13 1/12 1 100201 00010 (12 1 10)						

## 8. Summary of Previous Submittal

PIs who were selected to proceed to the national competition but were unsuccessful may re-propose to this RFP. However, in such a case the application **must include a copy of, or summary of, the NASA reviewer's criticisms plus a discussion of how the re-submission has been re-structured to meet the reviewer's criticisms.** Include relevant information here, if applicable.