

# LaSPACE

## Graduate Student Research Assistance (GSRA) Program

Offered by the Louisiana Space Grant Consortium



Under the authority of the  
NASA Space Grant College and Fellowship Program

Louisiana Space Grant Consortium (LaSPACE)  
364 Nicholson Hall, Department of Physics and Astronomy  
Louisiana State University, Baton Rouge, LA 70803  
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# GSRA Program Summary Page

## About the GSRA Program

The Graduate Student Research Assistance (GSRA) program is designed to augment the lower than average compensation levels available to promising graduate students on LaSPACE campuses and, thereby, 1) retain more U.S. students for graduate study at consortium institutions, 2) promote diversity, and 3) assist in dissertation research. The GSRA supplement is \$8,000 for a 12 month period and can be used for augmenting the student stipend, to defray dissertation related research expenses, and promote student research presentations at national meetings. Cost share on the award is required as is a final technical report. Applications are judged on the basis of aerospace relevance of the research and overall relevance to LaSPACE research and human resource development objectives. We plan to issue three to five GSRA awards each year.

## Program Summary

- Graduate student applicants must be a U.S. Citizen, currently enrolled full-time in a graduate program at a LaSPACE Affiliate Institution, and be working on a research project with demonstrated relevance to NASA.
- An applicant may not apply for a GSRA if he/she already holds a major Fellowship or similar award.
- At least 50% of the requested funds must be used for direct student support.
- A student applicant cannot hold two GSRA awards concurrently. Consecutive awards are allowable, **IF** the application explicitly addresses completion of tasks from the previous awards, details distinctly new objectives and tasks for the new award, includes a draft of the previous awards final report, and has **NO** overlapping period of performance dates for the two awards.
- Tuition Costs, Foreign Travel, and the Purchase of Capital Equipment are not allowed.
- Proposals must be sponsored by a Faculty Mentor/PI at the affiliated university, and signed by the University's institutional representative for sponsored programs.
- All invoices and a final technical report written by the Graduate student and signed off on by the Faculty PI must be submitted to the LaSPACE office within 30 days of the project end date. Photographs and copies of all papers, presentations, and posters generated should be shared with LaSPACE as they occur and collected/referenced in the final report. Final Report template is available from the LaSPACE office.

## Proposal Submissions

- **Submit all properly executed proposals via email as fully searchable pdf documents to [laspace@lsu.edu](mailto:laspace@lsu.edu) by 11:59 pm on Thursday, June 7, 2018.**
- Important Dates:
  - Proposal Release Date: Thursday, April 5, 2018
  - Proposal Due Date: Thursday, June 7, 2018
  - Anticipated Award Announcements: Late June/Early July 2018
  - Award Period of Performance: 09/01/2018-08/31/2019

# LaSPACE General Guidelines

## Introduction to the Space Grant Program

The Louisiana Space Grant Consortium (LaSPACE) is a Designated Consortium in the NASA National Space Grant and Fellowship Program network, which was designed to network colleges, universities, and state education boards with partners in business, industry, and the non-profit sector in order to promote, develop, and strengthen aerospace science, research, technology, education, and awareness. Our mission is “To enhance Space and Aerospace related research, education, and public awareness throughout the State of Louisiana and thereby promote math/science education, training of professionals, and economic development.” LaSPACE promotes scientific research, workforce development, and public outreach to develop and strengthen long-term research capabilities within Louisiana that will make significant contributions to the research and technology Mission Directorates of NASA while supporting the goals of the state.

## Basis of Authority

The Louisiana Space Grant Consortium (LaSPACE) currently comprises Louisiana public and private colleges and universities in addition to business/industry partners and other organizations. The consortium is funded jointly by the National Aeronautics and Space Administration (NASA) and by the Louisiana Board of Regents Support Fund (BORSF). The consortium is administered by the LaSPACE Council, under the aegis of NASA and the Board of Regents. The basis of authority for this and other programs of LaSPACE rests in part on the above funding. It is important, therefore, to note that the implementation of LaSPACE-supported projects must conform to applicable Federal and State regulations, in general, and to the NASA stipulations, in particular.

## NASA Agency Information

### NASA Vision

*We reach for new heights and reveal the unknown for the benefit of humankind.*

### NASA Mission

*Drive advances in science, technology, aeronautics, and space exploration to enhance knowledge, education, innovation, economic vitality, and stewardship of Earth.* From the 2014 NASA Strategic Plan: NASA’s Vision and Mission statements remind us of our purpose and our path. NASA’s Vision leads to a future with an American-made launch capability supporting cutting-edge science, technology, and human exploration with strong technology and aeronautics programs. We will continue to push the frontier of space. We will develop new technologies for use in air, space, and on the ground. We will be a part of a strong, high-tech economy, and we will continue to partner with other nations to create a better world. We will increase our understanding of the universe and our place in it. Our Mission statement outlines our fundamental purpose and role in bringing that Vision to life. As the Nation’s leading organization for research and development in aeronautics and space, we are explorers and innovators who create and use our unique tools and capabilities for the benefit of the Nation and the world. Complete Plan available: [http://www.nasa.gov/sites/default/files/files/2014\\_NASA\\_Strategic\\_Plan.pdf](http://www.nasa.gov/sites/default/files/files/2014_NASA_Strategic_Plan.pdf)

## NASA Education

NASA contributes to national efforts for achieving excellence in STEM education through a comprehensive education portfolio implemented by the Office of Education, the Mission Directorates, and the NASA Centers. NASA will continue the Agency's tradition of investing in the Nation's education programs and supporting the country's educators who play a key role in preparing, inspiring, exciting, encouraging, and nurturing the young minds of today that will manage and lead the Nation's laboratories and research centers of tomorrow.

## NASA Office of Education and Mission Directorates

The National Space Grant College and Fellowship Program, from which LaSPACE is derived, is managed through the NASA Office of Education based at NASA Headquarters in Washington D.C., <http://www.nasa.gov/offices/education/about/index.html>. NASA's education program strives to "inspire and motivate students to pursue careers in science, technology, engineering, and mathematics" by supporting education in the Nation's schools and to "engage the public in shaping and sharing the experience of exploration and discovery" by supporting informal education and public outreach efforts.

NASA identifies three major education goals:

- Strengthening NASA and the Nation's future workforce
- Attracting and retaining students in science, technology, engineering and mathematics, or STEM, disciplines
- Engaging Americans in NASA's mission

Research and technology priorities are based on alignment with one or more of NASA's Mission Directorates:

- **The Aeronautics Research Mission Directorate (ARMD),**  
[http://www.aeronautics.nasa.gov/about\\_us.htm](http://www.aeronautics.nasa.gov/about_us.htm)
- **Human Exploration and Operations Mission Directorate (HEOMD),**  
<http://www.nasa.gov/directorates/heo/home/about.html#.VXtCQUZURmM>
- **Science Mission Directorate (SMD),**  
<http://science.nasa.gov/about-us/>
- **Space Technology Mission Directorate (STMD),**  
[http://www.nasa.gov/directorates/spacetech/about\\_us/index.html](http://www.nasa.gov/directorates/spacetech/about_us/index.html)

All NASA subprograms must relate to and support one or more of these directorates. Likewise, all programs supported by LaSPACE must support the NASA organization, align with the NASA Strategic Plan, and support the goals of one or more directorates and the Office of Education.

## LaSPACE Program

The Louisiana Space Grant Consortium, part of the National Space Grant College and Fellowship Program and in partnership with the Louisiana Board of Regents, supports programs at affiliated academic institutions and other Louisiana organizations that address the NASA mission, federal CoSTEM goals, and state education and economic priorities. LaSPACE programs for Research, Higher Education, Workforce Development, K-12 Teacher Development, and Public Outreach, strengthen the Science, Technology, Engineering, and Math (STEM) education needed for a diverse technical workforce, and develops the research and economic infrastructure to boost Louisiana's contribution to the aerospace frontier.

## Goals and Objectives

LaSPACE Goals and Objectives are directly aligned with NASA Office of Education Lines of Business (LOB) and National Program Emphases on Diversity, Workforce Development, Community Colleges, Pre-College teacher engagement, Competitiveness, NASA Research Relevance, Industry Relations, and State Government Involvement. The updated LaSPACE 2015 Strategic Plan (posted on our website) describes a comprehensive program of Research, Education, and Service via 5 strategic goals, each in line with one or more NASA OE LOB, to (1) Foster aerospace research and education (LOB 2&3), (2) Encourage aerospace industries within Louisiana (LOB 1), (3) Contribute to pre-college STEM education excellence (LOB 4), (4) Engage and educate the general public (LOB 3&4), and (5) Maintain an effective consortium of institutions involved in LaSPACE (LOB 1).

Major objectives for the achievement of these goals includes (1) Support for student and faculty research at consortium institutions, (2) Strengthening interactions between Louisiana aerospace industries, faculty, and students, (3) Increased participation in Space Grant programming with the state's HBCUs and Community & Technical Colleges, (4) Provide support to undergraduate and graduate students for research, design, and internship opportunities, (5) Engage students in experiential learning environments, (6) Support middle and high school educator training, and (7) Foster informal education and public outreach. Proposals to LaSPACE programs should explicitly support one or more of these seven objectives.

## LaSPACE Program Administration & Institutional Coordinators

General administration and management is the responsibility of the LaSPACE Staff headquartered at Louisiana State University (LSU). Questions about applications to any LaSPACE programs should be directed to the Director or Program Manager. Unless otherwise directed, all proposals should be submitted via email to the program email address ([laspace@lsu.edu](mailto:laspace@lsu.edu)). Contact info for the program management team is included below.

LaSPACE Program Office, [laspace@lsu.edu](mailto:laspace@lsu.edu)  
LSU Department of Physics & Astronomy  
364 Nicholson Hall, Baton Rouge, LA 70803  
Phone: 225.578.8697 Fax: 225.578.1222  
T. Gregory Guzik, Director, [guzik@phunds.phys.lsu.edu](mailto:guzik@phunds.phys.lsu.edu)  
Colleen H. Fava, Manager, [colleenf@lsu.edu](mailto:colleenf@lsu.edu)

Additionally, all member institutions have appointed an institutional coordinator who sits on the LaSPACE Advisory Council and is available to discuss opportunities and processes related to LaSPACE programs. Contact information for all advisors is provided below. For institutions with a vacancy, contact the program manager listed above.

## LaSPACE Affiliate Institutional Coordinators

Baton Rouge Community College (BRCC)	Asoka Sekharan	<a href="mailto:sekharan@mybrcc.edu">sekharan@mybrcc.edu</a>	225-216-8118
Delgado Community College (DCC)	Raymond Duplessis	<a href="mailto:rduple@dcc.edu">rduple@dcc.edu</a>	504-671-6419
Dillard University (Dillard)	Abdalla Darwish	<a href="mailto:adarwish@dillard.edu">adarwish@dillard.edu</a>	504-816-4840
BREC / Highland Road Park Observatory (HRPO)	Christopher Kersey	<a href="mailto:observatory@brec.org">observatory@brec.org</a>	225-768-9948
Cain Center for STEM Literacy (Cain Center)	Brenda Nixon	<a href="mailto:bnixon@lsu.edu">bnixon@lsu.edu</a>	225-578-4082
Grambling State University (GSU)	Matthew F. Ware	<a href="mailto:waremf@gram.edu">waremf@gram.edu</a>	318-274-2391
Jacobs Technology, Inc. at Michoud (Jacobs)	vacant	<a href="#">vacant</a>	vacant
Louisiana Arts and Science Museum (LASM)	vacant	<a href="#">vacant</a>	vacant
La Board of Elementary & Secondary Education (BESE)	Ann Wilson	<a href="mailto:Ann.wilson@la.gov">Ann.wilson@la.gov</a>	225-342-0140
Louisiana Board of Regents (BOR)	Jessica Patton	<a href="mailto:jessica.domingue@la.gov">jessica.domingue@la.gov</a>	225-342-4253
Louisiana Business and Technology Center (LBTC)	Roy Keller	<a href="mailto:rkeller@lsu.edu">rkeller@lsu.edu</a>	225-578-3985
Louisiana State University and A&M College (LSU)	Ram Devireddy	<a href="mailto:devireddy@me.lsu.edu">devireddy@me.lsu.edu</a>	225-578-5891
Louisiana State University Agricultural Center (LSU-Ag)	Wade Baumgartner	<a href="mailto:wbaumgartner@agcenter.lsu.edu">wbaumgartner@agcenter.lsu.edu</a>	225-578-7742
Louisiana State University Health Sciences (LSUHSC)	Lynn Harrison	<a href="mailto:lharrison@lsuhsc.edu">lharrison@lsuhsc.edu</a>	318-675-4213
Louisiana State University of Shreveport (LSU-S)	Urska Cvek	<a href="mailto:urska.cvek@lsus.edu">urska.cvek@lsus.edu</a>	318-795-4266
Louisiana Tech University (LaTech)	Mary Caldorera-Moore	<a href="mailto:mcmoore@latech.edu">mcmoore@latech.edu</a>	318-257-2207
Loyola University (Loyola)	Martin McHugh	<a href="mailto:mmchugh@loyno.edu">mmchugh@loyno.edu</a>	504-865-2451
McNeese State University (McNeese)	Ning Zhang	<a href="mailto:nzhang@mcneese.edu">nzhang@mcneese.edu</a>	337-475-5873
Nicholls State University (Nicholls)	Chadwick H. Young	<a href="mailto:chad.young@nicholls.edu">chad.young@nicholls.edu</a>	985-448-4879
Northwestern State University of Louisiana (NWSU)	Austin L. Temple Jr.	<a href="mailto:temple@nsula.edu">temple@nsula.edu</a>	318-357-6699
River Parishes Community College (RPCC)	Esperanza Zenon	<a href="mailto:ezenon@rpcc.edu">ezenon@rpcc.edu</a>	225-743-8713
SciPort Louisiana's Science Center (SciPort)	Ann S. Fumaro	<a href="mailto:afumaro@sciport.org">afumaro@sciport.org</a>	318-242-3466
Southeastern Louisiana University (SELU)	Gerard Blanchard	<a href="mailto:gerard.blanchard@selu.edu">gerard.blanchard@selu.edu</a>	985-549-2159
Southern University and A & M College (SUBR)	Diola Bagayoko	<a href="mailto:bagayoko@aol.com">bagayoko@aol.com</a>	225-771-2730
Southern University of New Orleans (SUNO)	Illya Tietzel	<a href="mailto:itietzel@suno.edu">itietzel@suno.edu</a>	504-286-5111
Tulane University (Tulane)	Mark J. Fink	<a href="mailto:fink@tulane.edu">fink@tulane.edu</a>	504-862-3568
University of Louisiana at Lafayette (ULL)	Afef Fekih	<a href="mailto:afef.fekih@louisiana.edu">afef.fekih@louisiana.edu</a>	337-482-5333
University of Louisiana at Monroe (ULM)	Leonard Clark	<a href="mailto:leclark@ulm.edu">leclark@ulm.edu</a>	318-342-1036
University of New Orleans (UNO)	Matt Tarr	<a href="mailto:mtarr@uno.edu">mtarr@uno.edu</a>	504-280-6323
Xavier University of Louisiana (Xavier)	Ashwith K. Chilvery	<a href="mailto:achilver@xula.edu">achilver@xula.edu</a>	504-520-5149

## LaSPACE Requirements and Restrictions

In this section, requirements and restrictions applied to all LaSPACE programs are summarized. Additional requirements and restrictions pertaining to individual programs offered by LaSPACE are detailed later in these guidelines.

### Public Nature of Applications to LaSPACE

Once an application is received in the LaSPACE office, it becomes public record. Although the staff will not disseminate applications to individuals other than to reviewers, applicants should be aware that, if a request for information is made by the public (e.g., the news media), a copy of the application, by law, must be provided.

### Disclosure of Information

All LaSPACE programs must conform to applicable Federal, State and NASA regulations and stipulations. This includes annual reporting of award participant information to both the Louisiana Board of Regents and NASA. Part of this information will include both directory information such as name, address, telephone number, date of birth, and demographic information such as gender, ethnicity, and race for all award participants including faculty, staff, and students. Further, LaSPACE outreach includes public dissemination of its supported programs through *The Spaceporter Newsletter*, the LaSPACE website (<http://laspace.lsu.edu/>), as well as papers and/or presentations at Space Grant or related Education & Public Outreach conferences. The contents of award reports, including participant names, titles, institution, project summaries, results or conclusions and images, might be included in such public outreach articles. It is not intended that these public articles will disclose directory or demographic information except as aggregated statistical data.

### Diversity

It is a national priority to increase diversity in Science, Technology, Engineering, and Mathematics (STEM), from university students, faculty, and staff to industry employees. Traditionally, minority groups and women have been under-represented in the STEM disciplines as students and faculty as well as in the workplace after graduation. LaSPACE is committed to addressing this priority and utilizing its programs, to the degree possible, to increase the diversity among its awardees. **All proposers are encouraged to help recruit diverse participants to their proposed projects.**

### Animal Use

Any project proposing the use of an animal model for validation must include a local IACUC approval letter, fully signed, which specifies a validity period longer than the proposed project period. Failure to obtain the Institutional Animal Care and Use Committee's approval in advance, is grounds for returning the proposal unreviewed. Attach the IACUC material as an additional appendix.

### Human Subjects

Projects that involve human subjects are not acceptable for this program.

## Eligibility

PI must be associated with a LaSPACE affiliated institution. PI must be a research or tenure-track faculty member or designated institutional representative recognized by LaSPACE. All NASA funded participants must be U.S. citizens. Additional, or altered, restrictions may apply to specific programs.

## Budgeting

Capital Equipment purchases and Foreign Travel are, in general, not allowable costs.

## Disbursement of Funds

LaSPACE Award fund distribution will be managed by the applicant's college or university, either via a cost-reimbursable subcontract if the applicant is at an affiliate other than LSU, or by transfer of funds from LaSPACE to the applicant's department for projects at LSU. The institution/department will assume responsibility for administering, distributing, and documenting costs charged to this program.

## Period of Performance

Unless otherwise stated, LaSPACE programs have a default period of performance of no greater than 12 months. Shorter periods of performance may be proposed, or even required by the LaSPACE office, to meet any requirements or restrictions related to the parent grant. *A proposed period of performance is provided for each program cycle on the summary page; proposers may request a different period within 60 days from our proposed start date, unless otherwise indicated.* No cost extensions (NCEs) for ongoing projects may be submitted to the LaSPACE program office no later than 60 days before the initial project end-date. All NCE requests must include a status report which addresses all accomplishments made to-date on the project (including all publications, proposals, presentations, patents, etc), where the project is in relation to the originally proposed end date, reasons why the project has been delayed, and a proposed plan for completing the project. This status report must also identify all participants on the project and include demographics for each (students, post-docs, faculty, and staff).



# Graduate Student Research Assistance (GSRA) Program

## Application Guidelines

### About the GSRA Program

#### Background and Objectives

The GSRA Program serves to strengthen the educational base among member LASPACE institutions, and to contribute to the future STEM workforce in line with Federal and State needs. The specific objectives in recruiting superior graduate students under the LaSPACE program are: (1) to encourage highly qualified individuals with interests in aerospace to continue in the field, (2) to support graduate level education in Louisiana, and (3) to develop the research infrastructure needed to grow the level of aerospace and space science R & D in the state. Objectives of the GSRA program are (i) to retain more U. S. students for graduate study on consortium campuses, (ii) to promote diversity, and (iii) to assist graduate students with thesis/dissertation research. It is a national priority to increase diversity in Science, Technology, Engineering, and Mathematics (STEM), from university students, faculty, and staff to industry employees. Traditionally, minority groups and women have been under-represented in the STEM disciplines as students and faculty as well as in the workplace after graduation. LaSPACE is committed to addressing this priority and utilizing its programs, to the degree possible, to increase the diversity among its awardees. **All proposers are encouraged to help recruit diverse participants to their proposed projects.**

#### Program Description

The Graduate Student Research Assistance (GSRA) program is designed to augment the lower than average compensation levels available to promising graduate students on LaSPACE campuses and, thereby, 1) retain more U.S. students for graduate study at consortium institutions, 2) promote diversity, and 3) assist in dissertation research. The GSRA award is \$8,000 for a 12 month period and can be used for augmenting the student stipend, to defray dissertation related research expenses, and promote student research presentations at national meetings. At least 50% of the requested funds (\$4k or greater) must be used to directly fund the student. It is not the purpose of the GSRA program to pay for research projects nor to provide general, personal supplies to the student. GSRA funds cannot be applied to student tuition. Cost share on the award is required as is a final technical report. Applications are judged on the basis of aerospace relevance of the research and overall relevance to LaSPACE research and human resource development objectives. Applications must be submitted by a Faculty advisor, who will be responsible for properly routing the proposal for required signatures/submission, for administering funds on any awards made, and for submitting technical reports to LaSPACE.

## Eligibility & Allowable Expenditures

To be eligible to apply for a LaSPACE GSRA Award, the graduate student applicant must meet each of the following criteria:

1. An applicant must be a U.S. Citizen.
2. At the time of application, the student must be currently enrolled in graduate school at a LaSPACE Affiliate Institution.
3. The graduate work of the applicant must be relevant to NASA and in an aerospace or space sciences related field. This must be explicitly described in the application.
4. An applicant may not apply for a GSRA if he/she already holds a major Fellowship or similar award. For example, if a student has an active Fellowship (LaSPACE, BOR, NSF, DOE, other federal, etc.) that student is ineligible for a GSRA award. It is not the purpose of these NASA funds to support students already funded by another federal/state agency.
5. An applicant must pursue his/her graduate degree on a full time basis, and be registered for each semester, including the summers.
6. Any project proposing the use of an 'animal model' for validation must include a local IACUC approval letter, fully signed, which specifies a validity period longer than the proposed project period. Failure to obtain the Institutional Animal Care and Use Committee's approval in advance, is grounds for returning the proposal unreviewed. Attach the IACUC material as an additional appendix.
7. Projects that involve human subjects are not acceptable for this program.
8. Foreign Travel and the Purchase of Capital Equipment are not allowed.
9. GSRA funds cannot be used for tuition.
10. Proposals must be sponsored by a Faculty Mentor/PI at the affiliated university.

*NOTE: GSRA awards are not transferable to another graduate student. However if circumstances necessitate it, a change in PI can be requested in writing.*

## GSRA Terms and Conditions

### **Award Funds**

A LaSPACE GSRA supplement carries an annual award of \$8k for graduate students seeking a Master's or Doctoral degree. Both degree levels are reviewed on an equal basis. At least 50% of the requested funds (\$4k or greater) must be used to directly fund the student.

### **Travel & Equipment**

The travel budget category is restricted to travel for the students. No foreign travel is allowed. The use of LaSPACE GSRA grant funds for the purchase of equipment is prohibited.

### **Duration**

A GSRA award is usually for a 12-month period. Awards for fewer than 12 months are also possible (two semesters or three quarters) with sufficient justification in writing. In order to complete goals, and with prior written justification, a No Cost Extension may be granted.

### **Number of Awards**

LaSPACE intends to issue 5 to 8 GSRA awards each year.

### **Equal Opportunity / Diversity**

As with all LaSPACE programs, applicants from groups under-represented in Math, Science, and Engineering are especially encouraged. African Americans, Native Americans, Mexican Americans, Puerto Ricans, Alaskan Natives, Native Pacific Islanders, women, and persons with disabilities are strongly urged to apply. No applicant shall be denied consideration or appointment as a LaSPACE Undergraduate Research Assistantship on the grounds of race, creed, color, age, gender, or disability.

### **Cost-Share Requirement**

The applicant's institution must commit at least a 1:1 match in non-federal and non-LaSPACE funds. The GSRA award is supplemental. It is intended to enhance or re-vitalize a graduate student's program and not to replace any current student support, and LaSPACE, as a federal-state partnership, is required to generate 1:1 matching funds on its awards. The match on GSRA awards helps us meet this programmatic requirement. The match also indicates an institution's commitment to the success of the program. Thus, the match requirement is an integral part of the program and must be considered in the evaluation of the applicants. Because indirect costs are waived on GSRA awards per the terms of the NASA grant, these unrecovered costs **cannot** be used as a cost-match.

### **Indirect Costs**

F & A (Indirect) charges are waived for GSRA awards as per the NASA grant. Indirect/overhead (F & A) charges should not be applied on student support funds.

### **Disbursement of Funds**

GSRA Award fund distribution will be managed by the applicant's college or university, either via a cost-reimbursable subcontract if the applicant is at an affiliate other than LSU, or by transfer of funds from LaSPACE to the applicant's department for projects at LSU. The institution/department will assume responsibility for administering, distributing, and documenting costs charged to this program. The applicant's Faculty Advisor will serve as PI for the subcontract or account.

### **Re-Application to the Program**

After an award term has expired, applicants may apply for another supplement in order to continue promising research and progress toward the degree. Reapplication is contingent on the availability of funds, satisfactory progress in graduate work, submission and approval of the Final Technical Report for previous awards, and the continued fulfillment of the eligibility criteria. No re-application will be considered until the previous award is complete with final technical report and final financial report submitted and approved.

### **Animal Use**

Any project proposing the use of an 'animal model' for validation must include a local IACUC approval letter, fully signed, which specifies a validity period longer than the proposed project period. Failure to obtain the Institutional Animal Care and Use Committee's approval in advance, is grounds for returning the proposal unreviewed. Attach the IACUC material as an additional appendix.

### **Human Subjects**

Projects that involve human subjects are not acceptable for this program.

## GSRA Proposal Requirements & Format

GSRA proposals should be submitted as fully searchable pdf documents via email to [laspace@lsu.edu](mailto:laspace@lsu.edu). A GSRA proposal **must** include the following completed sections in the order presented:

- LaSPACE Cover Page
- Proposed Project Summary Form
- Prior LaSPACE Awards Form
- Proposal Narrative (not to exceed 10 pages)
  - Description of overall research project, current status, and project plan
  - Statement of how this research project is relevant to NASA Aerospace and Space Science research (See NASA Mission Directorates for more info on NASA research)
  - Explanation of how the LaSPACE GSRA will directly support the project, how the funds expended will enable progress toward the degree, and a justification of “need” for these funds.
  - Profile of the Applicant to include:
    - Related Work Experience, Awards, Honors, Recognition.
    - Publications, Presentations, Patents, etc.
    - Current Financial Support (Fellowships, scholarships, Assistantships, Work, etc.): funding amounts and commitments for funding during the duration of the proposed period of performance.
    - Career goals and professional plans post-graduation
- Letter of Recommendation from Faculty Mentor/PI (affirm that the applicant is in a graduate program, attest to the relevance of the applicant’s research to NASA, and speak to the applicant’s need for the supplement to further his/her graduate research objectives).
- Budget (LaSPACE Budget Form followed by narrative explanation of all costs. *Note: Funding requests should be consistent with the level of effort proposed for the student in the proposal project plan.*)

# Attachments

## Required Proposal Forms

### Required Forms for Proposal

All proposals submitted to LaSPACE must use the forms included following this page. Proposals not using these forms may be rejected without review.

- Cover Sheet
- Proposed Project Summary
- Prior LaSPACE Awards
- Proposal Budget Form
- Student Demographic Form (to be completed for proposed projects where the participating student(s) have already been identified; an updated version should be submitted with the final report AND upon request by LaSPACE staff).

# LaSPACE GSRA Program Proposal Cover Sheet

1. Title of Proposed Project: \_\_\_\_\_  
\_\_\_\_\_
  2. Principal Investigator: \_\_\_\_\_  
(Name) (Highest Degree Earned) (Citizenship)  
\_\_\_\_\_  
(Department)
  3. Institution of Higher Education: \_\_\_\_\_
  4. Address: \_\_\_\_\_  
(Street Address/P.O. Box Number)  
\_\_\_\_\_  
(City, State) (Zip Code)
  5. Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_  
E-mail: \_\_\_\_\_
  6. Date of Submission: \_\_\_\_\_
  7. Total Funds Requested: \$ \_\_\_\_\_ Institutional Match: \$ \_\_\_\_\_
- \*\*\*\*\*
- Certification of Compliance with Applicable Executive Orders and U.S. Code:** By signing and submitting this proposal, the signatories certify that the statements made in this proposal are true and complete to the best of their knowledge; they agree to comply with LaSPACE award terms and conditions if an award is made as a result of this proposal; and the institution and proposed project are in compliance with all applicable Federal and State laws and regulations including, but not limited to, Executive Order 12549, Debarment and Suspension, 34 CFR Part 85, Section 85.510, Participant's responsibilities; Non-Discrimination; Certification against Lobbying imposed by section 1352, title 31, U.S. Code; Compliance with China Funding Restriction as detailed in Public Laws 112-10 Section 1340(a) and 112-55, Section 539; ACORN Compliance in accordance with 534 of the Consolidated and Further Continuing Appropriations Act of 2012 (Pub. L.112-55); and does not have a federal tax liability or federal felony conviction (sections 544 and 543 of Public Law 112-55).
8. Signature of Principal Investigator: \_\_\_\_\_  
Signature of Graduate Student Applicant: \_\_\_\_\_
  9. Name of Authorized Institutional Rep: \_\_\_\_\_
  10. Signature of Authorized Institutional Rep: \_\_\_\_\_
  11. Date Signed: \_\_\_\_\_

## Proposed Project Summary

NAME OF INSTITUTION (INCLUDE BRANCH/CAMPUS AND SCHOOL OR DIVISION)
ADDRESS (INCLUDE DEPARTMENT)
PRINCIPAL INVESTIGATOR
STUDENT RESEARCHER
PROJECT TITLE
PROPOSED PROJECT START DATE 09/01/2018 – 08/31/2019
ABSTRACT (DO NOT EXCEED 250 WORDS)

## Prior LaSPACE Awards

*Please limit this list to LaSPACE awards issued to you since 2010.*

For each prior LaSPACE award, as a PI or a Co-I please provide the following:

1. Project Title:
2. Dates:
3. Was a final technical report submitted? \_\_\_\_\_YES \_\_\_\_\_NO\*

If no, explain:

4. Did a proposal to a funding agency result? \_\_\_\_\_NO \_\_\_\_\_YES

If yes, Agency:

Title:

Date:

Status: \_\_\_\_\_Funded \_\_\_\_\_Declined \_\_\_\_\_Pending

(Add additional pages as necessary.)



## LaSPACE Proposed Budget Form

*Include this form in your proposal. Be sure to only ascribe funds to categories explicitly open to the program area to which you are applying. Following this form, include a detailed narrative explanation of all proposed costs.*

Proposal Title: \_\_\_\_\_

Principal Investigator: \_\_\_\_\_

Institution: \_\_\_\_\_

	LaSPACE Funds Requested	Institutional Match Funds*
<b>A. Direct Labor</b>		
1. Researchers	\$	\$
2. Graduate Student(s)	\$	\$
3. Undergraduate Student(s)	\$	\$
4. Fringe Benefits	\$	\$
5. Subtotal A	\$	\$
<b>B. Supportive Expenses</b>		
1. Travel	\$	\$
2. Supplies & Materials	\$	\$
3. Communications & Equipment	\$	\$
4. Other Direct Costs (Identify)	\$	\$
5. Subcontracts	\$	\$
6. Subtotal B	\$	\$
7. F&A (Indirect)	\$	\$
<b>C. Total Project Cost</b>		
	\$	\$

*\*Must be certified on all financial billings/reports.*

# Student Information Form

(The following is the information we must collect for all students participating in a LaSPACE SG or NASA EPSCoR program.)

Date Completed/Submitted to LaSPACE: \_\_\_\_\_

Name: \_\_\_\_\_ Date of Birth \_\_\_\_\_

Address: \_\_\_\_\_

Cell Phone: \_\_\_\_\_ Primary e-mail: \_\_\_\_\_

Secondary Telephone: \_\_\_\_\_ Secondary e-mail: \_\_\_\_\_

University: \_\_\_\_\_ Faculty advisor/mentor: \_\_\_\_\_

Advisor Phone: \_\_\_\_\_ Advisor E-mail: \_\_\_\_\_

Program (circle one): GSRA LURA Scholars Senior Design Intern LaACES HASP REA RAP  
RockOn SAR TAP Other (please explain): \_\_\_\_\_

U.S. Citizen: \_\_\_\_ Yes \_\_\_\_ No Gender: \_\_\_\_ M \_\_\_\_ F Hispanic/Latino: \_\_\_\_ Yes \_\_\_\_ No

Race: \_\_\_\_\_

(SELECT ONE: African-American/Black; Asian; American Indian/Alaskan Native; Native Hawaiian; Pacific Islander; White)

U.S. Military Service? \_\_\_\_ Yes \_\_\_\_ No

Do you have a disability recognized under the American Disabilities Act? \_\_\_\_ Yes \_\_\_\_ No

If yes, please list disability (write n/a, if you do not want to disclose): \_\_\_\_\_

Will you or your siblings be the first in your family to graduate from college? \_\_\_\_ Yes \_\_\_\_ No

**Undergraduate Student:** \_\_\_\_ Yes \_\_\_\_ No

Year in School: \_\_\_\_\_ Major: \_\_\_\_\_ Anticipated Graduation (mo./yr.): \_\_\_\_\_  
(freshman/sophomore/junior/senior)

What do you intend to do after you graduate?  
\_\_\_\_\_

**Graduate Student:** \_\_\_\_ Yes \_\_\_\_ No

Degree Sought: \_\_\_\_\_ Dept/Major: \_\_\_\_\_ Anticipated Graduation (mo./yr.): \_\_\_\_\_

What do you intend to do after you graduate?  
\_\_\_\_\_