

LaSPACE

Louisiana Aerospace Catalyst Experiences for Students (LaACES) 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
225.578.8697 | Fax: 225.578.1222
<http://laspace.lsu.edu/> | laspace@lsu.edu

Revised, May 2016

All previous versions of this program's guidelines are null and void.

LaACES Program Summary Page

About the LaACES Program

The Louisiana Aerospace Catalyst Experiences for Students (LaACES) Program usually runs for a full academic year. During the first semester a series of lectures and hands-on activities help build student skills in basic electronics, sensor interfacing, real-time programming, mechanical development, and project management. The second semester is then devoted to applying these skills to the design, development, fabrication, and flight of a small (~500 gram) balloon payload.

Program Summary

- Proposals must be signed off on by the Faculty PI and the Designated Institutional Representative for Sponsored Programs at your institution.
- For the 2016-2017 year the LaACES program will focus on student teams developing solar-eclipse related payloads. As such, all LaACES student teams participating in this year's program will be competing for additional support to participate in balloon flights in the path of totality for the August 21, 2017 solar eclipse.
- Award funds can be requested up to \$10,000; no strict cost-match is required, but some institutional investment will impact our evaluation.
- LaACES materials (lectures, electronics kits, etc) are provided to LaSPACE affiliates implementing this program at no additional cost and independent of any funding proposed here.
- Please include student demographic forms, if your student teams have already been identified.
- All invoices and a final technical report 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.

Proposal Submissions

- **Submit all properly executed proposals via email as fully searchable pdf documents to laspace@lsu.edu by 11:59 pm on Friday, July 15, 2016.**
- Important Dates:
 - Proposal Release Date: Friday, May 13, 2016
 - Pre-Proposal Q&A Teleconference: Wednesday, June 8, 2016 at 10 am
 - Proposal Due Date: Friday, July 15, 2016
 - Anticipated Award Announcements: Late July / Early August 2016
 - Anticipated Period of Performance: ~August 15, 2016 – August 14, 2017

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 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

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. 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>. The 2015-2017 NASA Education Implementation Plan (NEIP) provides an understanding of the role of NASA in advancing the nation's STEM education and workforce pipeline. The document outlines the roles and responsibilities that NASA Education has in approaching and achieving the agency's and the administration's strategic goals in STEM Education. The specific purpose of the 2015-2017 NASA Education Implementation Plan is to present and describe the following:

- The alignment of NASA Education with national priorities and the 2014 NASA Strategic Plan;
- The framework for specific and measurable outcomes to guide and monitor performance within the education portfolio;
- The roles, responsibilities and management of the Associate Administrator for Education, the Office of Education, Mission Directorate Leads, and Education Offices;
- The key agency stakeholders responsible for strategic coordination and requirements development;
- The monitoring and control structure for determining the outcomes of NASA's education portfolio across the agency.

In addition, this document describes the processes and principles of strategic planning and management for all of NASA's education efforts. It also explains how NASA Education is governed and managed and what internal and external requirements drive this strategy. Complete NEIP available here: http://www.nasa.gov/sites/default/files/atoms/files/nasa_education_implementation_plan_2015-2017.pdf

NASA Education Mission

Advance high-quality STEM education using NASA's unique capabilities.

NASA Mission Directorates

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

The Aeronautics Research Mission Directorate (ARMD),

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

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 the NEIP, 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). Contact info for the program management team is included below.

LaSPACE Program Office
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
Colleen H. Fava, Manager, 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	sekharan@mybrcc.edu	225-216-8118
Delgado Community College (DCC)	Raymond Duplessis	rduple@dcc.edu	504-671-6419
Dillard University (Dillard)	Abdalla Darwish	adarwish@dillard.edu	504-816-4840
BREC / Highland Road Park Observatory (HRPO)	Christopher Kersey	observatory@brec.org	225-768-9948
Cain Center for STEM Literacy (Cain Center)	Brenda Nixon	bnixon@lsu.edu	225-578-4082
Grambling State University (GSU)	Matthew F. Ware	waremf@gram.edu	318-274-2391
Jacobs Technology, Inc. at Michoud (Jacobs)	Chip Howat	carl.j.howat@nasa.gov	504-257-0478
Louisiana Arts and Science Museum (LASM)	vacant	vacant	vacant
La Board of Elementary & Secondary Education (BESE)	Ann Wilson	Ann.wilson@la.gov	225-342-0140
Louisiana Board of Regents (BOR)	Jessica Patton	jessica.domingue@la.gov	225-342-4253
Louisiana Business and Technology Center (LBTC)	Roy Keller	rkeller@lsu.edu	225-578-3985
Louisiana State University and A&M College (LSU)	Ram Devireddy	devireddy@me.lsu.edu	225-578-5891
Louisiana State University Agricultural Center (LSU-Ag)	Wade Baumgartner	wbaumgartner@agcenter.lsu.edu	225-578-7742
Louisiana State University Health Sciences (LSUHSC)	Lynn Harrison	lclary@lsuhsc.edu	318-675-4213
Louisiana State University of Shreveport (LSU-S)	Urska Cvek	urska.cvek@lsus.edu	318-795-4266
Louisiana Tech University (LaTech)	Niel Crews	ncrews@latech.edu	318-257-5109
Loyola University (Loyola)	Martin McHugh	mmchugh@loyno.edu	504-865-2451
McNeese State University (McNeese)	Ning Zhang	nzhang@mcneese.edu	337-475-5873
Nicholls State University (Nicholls)	Chadwick H. Young	chad.young@nicholls.edu	985-448-4879
Northwestern State University of Louisiana (NWSU)	Austin L. Temple Jr.	temple@nsula.edu	318-357-6699
River Parishes Community College (RPCC)	Esperanza Zenon	ezenon@rpcc.edu	225-743-8713
SciPort Louisiana's Science Center (SciPort)	Ann S. Fumarolo	afumarolo@sciport.org	318-242-3466
Southeastern Louisiana University (SELU)	vacant	vacant	vacant
Southern University and A & M College (SUBR)	Diola Bagayoko	bagayoko@aol.com	225-771-2730
Southern University of New Orleans (SUNO)	Illya Tietzel	itietzel@suno.edu	504-286-5111
Tulane University (Tulane)	Mark J. Fink	fink@tulane.edu	504-862-3568
University of Louisiana at Lafayette (ULL)	Afef Fekih	afef.fekih@louisiana.edu	337-482-5333
University of Louisiana at Monroe (ULM)	Leonard Clark	leclark@ulm.edu	318-342-1036
University of New Orleans (UNO)	Kevin L. Stokes	klstokes@uno.edu	504-280-1038
Xavier University of Louisiana (Xavier)	Ashwith K. Chilvery	achilver@xula.edu	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.

Budgeting Restrictions

Capital Equipment purchases and Foreign Travel are not allowable costs. Direct funding is limited to U.S. citizens.

Cost-Share

Space Grant is a federal-state partnership program which requires the generation of matching funds about equivalent to the funds NASA provides to LaSPACE. For certain institutional affiliates, a match

may not be possible, so there is not a strict matching formula applied to LaACES proposals. However, practically speaking, those proposals offering some degree of match are more likely to be approved for funding. The “institutional contribution” column on the attached budget form is to be used to specify any matching funds committed to the project. At the very least a cost-share commitment in the form of faculty mentor time shows an institutional investment to the program.

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. 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).

Louisiana Aerospace Catalyst Experiences for Students (LaACES) Program

Application Guidelines

About the LaACES Program

The Louisiana Aerospace Catalyst Experiences for Students (LaACES) Program usually runs for a full academic year. During the first semester a series of lectures and hands-on activities help build student skills in basic electronics, sensor interfacing, real-time programming, mechanical development, and project management. The second semester is then devoted to applying these skills to the design, development, fabrication, and flight of a small (~500 gram) balloon payload. The payload development processes is monitored by requiring the students to document and orally defend their progress during three reviews (PDR, CDR, FRR). The payloads are flown to 100,000 feet using a helium-filled latex sounding balloon launched from the NASA Columbia Scientific Balloon Facility (CSBF) in nearby Palestine, Texas. Following flight the students present their results to an audience of CSBF engineers, technicians, and staff, as well as student and faculty mentors from participating peer institutions.

Background and Objectives

The State of Louisiana's prime goal is to develop a well-trained, technical workforce capable of moving the state forward in R & D, attracting high tech industries, and promoting economic development. This is precisely what NASA desires and what LaSPACE is working to achieve. The core focus of the LaSPACE program continues to be student involvement in genuine scientific research and engineering projects. The long-term goals of La ACES are to 1) attract new students to aerospace related science and engineering programs, 2) provide students with a background to develop and manage modern aerospace projects, 3) give students practical experience with sensors, electronics and “spacecraft” systems, 4) assist in retaining these students by exciting their imagination and fostering their innate curiosity, and 5) disseminate this program to institutions across Louisiana.

LaSPACE institutions that wish to initiate, or continue, a LaACES program on their campus should use this document as a guide for preparing a proposal to LaSPACE. *Note that: LaACES materials (lectures, electronics kits, etc) are provided to LaSPACE affiliates implementing this program at no additional cost and independent of any funding proposed here.*

PI Eligibility

Proposals to the LaACES RFP may be submitted only by qualified faculty members at a LaSPACE affiliate academic institution. This person becomes the project’s Principal Investigator (PI) and is responsible for administering the ballooning course lectures, monitoring the student teams as they develop their payloads, and managing the team’s participation in the May launch.

Proposal Due Date

LaACES proposal must be completed with all institution approvals and submitted via email as a fully searchable PDF document to laspace@lsu.edu by 11:59 pm on Friday, July 15, 2016.

Award Funds

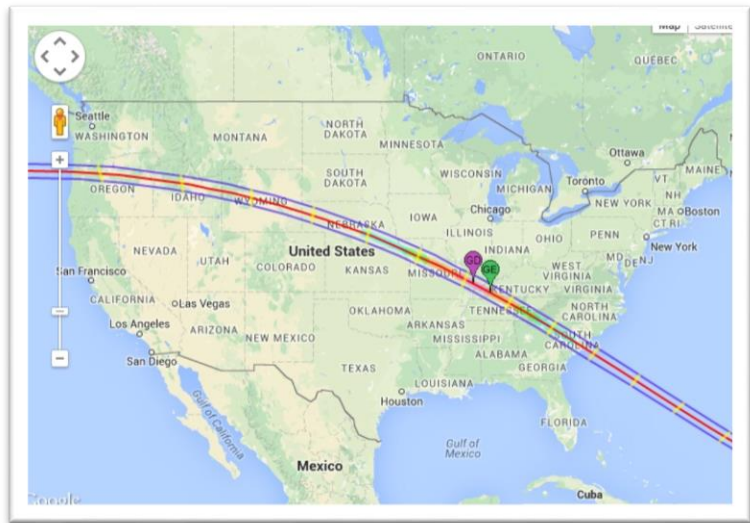
LaACES awards are capped at \$10,000 with only one award per campus per academic year. We anticipate selecting 6 to 8 applications for award. The proposal may include wage support for personnel (including students), funds for travel to launch, and costs for materials, supplies, and support for constructing/testing student payloads and analyzing flight data. A strict cost-share is not required, but some institutional investment will be reviewed favorably.

Special Focus for 2016-2017

On August 21, 2017 a solar eclipse will take place with the path of totality reaching across the United States from Oregon to South Carolina (see figure this section). A number of Space Grant consortia along or near the path of totality are currently planning a series of events concurrent with the eclipse including more than 50 balloon launches to track the Moon's shadow in real time as it crosses the United States. LaSPACE currently anticipates participating in one of these events from a base of operation in southern Illinois.

The Louisiana solar eclipse balloon flight operations will be led by LSU and we are currently collaborating with student teams in Montana, Colorado and Minnesota to develop a payload that will transmit in real-time HD video of the Moon's shadow from an altitude of ~100,000 feet. In addition, we intend to select two to three other Louisiana student teams to accompany the LSU group to fly their payloads and experience the total solar eclipse first hand.

These teams will be selected from those who are awarded to participate in LaACES during the 2016-2017 academic year. Thus, to be considered for participation in this Solar Eclipse special project you must submit an application in response to this RFP.



All 2016-2017 LaACES applications will be entered into the Solar Eclipse competition and, therefore, must describe some aspect of investigation involving the Sun, Moon, or solar influence on the atmosphere. Example payloads potentially include a sun-pointing camera, measurement of UV flux, changes in the ozone layer during totality, or studies of how other atmospheric environmental characteristics vary during the total eclipse. The LaACES application should describe in general terms the proposed science investigation and concept instrument design. The science topic and instrument concept should be reasonable and provide a focus for the project, but it is understood that the detailed design will be developed by the student team during the academic year.

All student teams receiving LaACES awards will be required to deliver Preliminary Design Review (PDR), Critical Design Review (CDR), and Flight Readiness Review (FRR) documents during the academic year. Templates for these documents are available on the ACES website and can be distributed upon request. All payloads will be flown during the annual LaACES launch trip in May 2017 and

student teams will be judged based upon the PDR, CDR, FRR documents, successful flight operations, data returned during the flight, plus the quality and professionalism of the team's flight results presentation. The top teams will be awarded an augmentation to their award to support travel with the LSU team to Carbondale, IL to fly their payload with the real-time HD video system during the actual solar eclipse.

Final Deliverables

At the end of the project, two final reports are required: the Final Technical Report and the Final Financial Report (Last invoice marked "final"). These reports are due within 30 days of the subcontract expiration date.

The Final Technical Report will be a multi-page write-up that is suitable for transmission to NASA and BOR. This report should describe the activities undertaken, the participants, and your assessment, as Principal Investigator(s), of the success of the venture, the impact that it had (or will have), any follow-on proposals in preparation/submitted and any further plans for a continuation of this or similar projects. Photographs of and testimonials from student participants should be incorporated. Updated student demographic forms for all students must be included. This report shall be submitted to LaSPACE office (guzik@phunds.phys.lsu.edu and colleenf@lsu.edu) via email.

Pre-Proposal Teleconference

Due to the special topics focus of this years' program, we will be hosting a teleconference in which all prospective PIs and student team members are invited to participate. During this teleconference, Dr. Guzik will answer questions related to your proposal development, specifically potential payload projects and the anticipated solar eclipse flight next August. Call in Details are below.

Teleconference: Wednesday, June 8, 2016, 10 am

Instructions for teleconference:

Each participant of the teleconference (including the chairperson) will call 8-4942 (225-578-4942 from off-campus). Participants calling long-distance may use the toll-free number 866-571-1446.

They will hear:

Welcome to Voice-Plus Conferencing.

Please enter your Conference ID.

Press the # key when complete.

Participants will press **255032#**.

They will hear:

Welcome to Voice-Plus Conferencing.

For conference chairperson services, press the # key.

All other participants please wait.

"All other participants" will wait on the line until the Chairperson has 'entered' the teleconference.

LaACES Proposal Requirements & Format

LaACES proposals should be submitted as fully searchable pdf documents via email to laspace@lsu.edu. Proposals 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 6 pages)
 - Description of proposed solar eclipse science and payload instrument concept.
 - Plan for implementing the student ballooning course (part of a course, extracurricular activity), the resources, facilities, and personnel available to support the project, and a table of major milestones (including the required deliverables) for completion of the project.
 - Plan to recruit and retain student participants in the program (*If students have already been recruited at the time of the proposal, include completed student demographic forms for each participant as an appendix*).
 - Anticipated outcomes for student learning and development and benefits to your department and institution.
- Budget (LaSPACE Budget Form followed by narrative explanation of all costs). Note: It is hoped that for a student team award of this type, your institution will be willing to forego some or all of the indirect charges. Waived indirect may (should) be used as institutional matching funds.
- Principal Investigator Short CV (1-2 pages)

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 LaACES 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: _____
 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

PROJECT TITLE

PROPOSED PROJECT START DATE

ABSTRACT (DO NOT EXCEED 250 WORDS)

Prior LaSPACE Awards

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*
A. Direct Labor		
1. Researchers	\$	\$
2. Graduate Student(s)	\$	\$
3. Undergraduate Student(s)	\$	\$
4. Fringe Benefits	\$	\$
5. Subtotal A	\$	\$
B. Supportive Expenses		
1. Travel	\$	\$
2. Supplies & Materials	\$	\$
3. Communications	\$	\$
4. Equipment	\$	\$
5. Other Expenses (Identify)	\$	\$
6. Subcontracts	\$	\$
7. Subtotal B	\$	\$
8. F&A (Indirect)	\$	\$
C. Total Project Cost		
	\$	\$

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

Revised 06/2015

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 _____

Permanent Address: _____

Primary Telephone: _____ Primary e-mail: _____

Secondary Telephone: _____ Secondary e-mail: _____

University: _____ Faculty advisor/mentor: _____

Advisor Phone: _____ Advisor E-mail: _____

Project (circle one): GSRA LURA MRS Scholars Senior Design Intern LaACES HASP REA RAP
Other (please explain): _____

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

Race: _____
(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?
