LaSPACE

LaSPACE Undergraduate Research Assistantship (LURA) 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, March 2017
All previous versions of this program’s guidelines are null and void.
LURA Program Summary Page

About the LURA Program
The LaSPACE Undergraduate Research Assistantship (LURA) Program is directed at undergraduate science and engineering students who are interested in space/aerospace science and technology. The intent of the LURA program is to supplement and enhance the undergraduate academic curriculum by providing the science/engineering student with a hands-on, mentored research experience relevant to space sciences. A LURA project will be a joint effort between a faculty researcher, who serves as mentor and project Principal Investigator, and an undergraduate research assistant.

Program Summary
- A LURA project should support NASA's goal of strengthening the higher education pipeline in STEM fields required for the future NASA workforce. A LURA project should expose Louisiana STEM students to the full cycle of a research project from proposal writing, through research and data analysis, to budget and time management, and concluding with final technical reporting.
- Proposals must be co-written by the Faculty Mentor and undergraduate student with a clear plan for the student’s research work.
- Proposals must be signed off on by the Faculty Mentor PI and the Designated Institutional Representative for Sponsored Programs at your institution.
- A student applicant cannot hold two LURA 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 award’s final report, and has NO overlapping period of performance dates for the two awards.
- Awards are for $6000 with no match requirement. The majority of the funds (≥$5k) are to be distributed directly to the student. It is recommended that some travel funds be budgeted for the student to attend at least one professional meeting; including, if possible, the annual LaSPACE Council Meeting Student Poster Session held in the early fall each year. No more than $750 can be used for materials and supplies.
- All invoices and a final technical report co-written by the Faculty Mentor & LURA student 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 Wednesday, May 31, 2017.
- Important Dates:
  - Proposal Release Date: Tuesday, March 14, 2017
  - Proposal Due Date: Wednesday, May 31, 2017
  - Anticipated Award Announcements: Late June/Early July 2017
  - Anticipated Period of Performance: ~ 09/01/2017-08/31/2018
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
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](http://www.nasa.gov/directorates/heo/home/about.html#.VXtCQUZURmM)

- **Science Mission Directorate (SMD),**
  [http://science.nasa.gov/about-us/](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). Contact info for the program management team is included below.

LaSPACE Program Office, 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
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  
rduplessis@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)  
vacant  
vacant  
vacant

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 (LBT)  
Roy Keller  
rkeller@lsu.edu  
225-578-3985

Louisiana State University and A&M College (LSU)  
Ram Devireddy  
devidreddy@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  
eznon@rpc.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

Southern University and A & M College (SUBR)  
Diola Bagayoko  
bagayoko@aol.com  
225-771-2730

Southern University of New Orleans (SUNO)  
Illya Tietzel  
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504-286-5111

Tulane University (Tulane)  
Mark J. Fink  
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University of Louisiana at Lafayette (ULL)  
Alef Fekih  
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University of Louisiana at Monroe (ULM)  
Leonard Clark  
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318-342-1036

University of New Orleans (UNO)  
Matt Tarr  
matt@uno.edu  
504-280-6323

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.
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).
LaSPACE Undergraduate Research Assistantship (LURA) Program

Application Guidelines

About the LURA Program
The LaSPACE Undergraduate Research Assistantship (LURA) Program is designed to support outstanding undergraduate students engaged in faculty-mentored, NASA-related, aerospace research on a LaSPACE affiliate campus and, thereby, retain such students while providing valuable hands-on training, as well as supporting the research infrastructure in Louisiana.

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 purposes of the LURA program are: to recruit superior undergraduate students into aerospace and aeronautical related fields of study; to strengthen the educational base in Louisiana by increasing the number of students training for careers in space-related science, engineering, and mathematics; to enhance the research capability and infrastructure in Louisiana through the support of outstanding undergraduates in mentored research; and, to develop an appreciation for space and aerospace related careers for Louisiana students. 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 LaSPACE Undergraduate Research Assistantship (LURA) Program is directed at undergraduate science and engineering students who are interested in space/aerospace science and technology. The intent of the LURA program is to supplement and enhance the undergraduate academic curriculum by providing the science/engineering student with hands-on, mentored research experience relevant to space sciences. A LURA project will be a joint effort between a faculty researcher, who serves as mentor and project Principal Investigator, and an undergraduate research assistant. This PI/student team will usually work on the PI’s existing space related research but may develop a new Aerospace-related project.
The LURA award provides for student support for the research assistant, who will be designated as a LaSPACE Undergraduate Research Assistant. Funding for supplies and travel to present research results is also available. Supplies will be limited to $750 per award. LURA funding is not intended to pay for the research project.

A LURA award is set at $6k per student for a 12 month period and is used for a supplemental student stipend plus travel for a student research presentation, with a minimum amount available for research supplies. A joint application is submitted by both the student and the faculty mentor. Student applicants must coordinate their effort with a faculty mentor and be able to devote 10-20 hours per week to the project. Faculty mentors must 1) be affiliated with a LaSPACE campus, 2) be engaged in NASA Mission Directorate related aerospace research or education, and 3) serve as the student faculty mentor. Applications are judged by the relevance of the research project to the NASA mission, the student’s future career plans, scholastic accomplishment, science experience, leadership, and intellectual ability as well as the faculty mentor plan for student academic development and opportunities for student presentations.

This joint project, with a team consisting of the faculty mentor PI and the LaSPACE Undergraduate Research Assistant, will require an application process that is dual in nature. First, the faculty PI and the proposed research project must meet LaSPACE consortium research project criteria. Simultaneously, the student researcher must qualify as a LaSPACE Undergraduate Research Assistant. This dual application process may seem cumbersome at first, but actually is intended to allow the faculty PI more freedom to select a research assistant. This approach has been adopted after reviewing several similar programs sponsored by other state space grants. Those programs utilize two separate competitions, one to select the students and one to accept the faculty mentors, and then coordinate the “match-making” of student-mentors, campuses, research interests, etc. Some programs in some states have as many as 200 student applicants, the vast majority of whom cannot be accommodated. Our approach to this match-making is to cut out the “middle man” and let the faculty and students form their own teams.

**Eligibility**
To be eligible to apply for a LaSPACE LURA award, an applicant must meet each of the following criteria:

**Undergraduate Research Assistant Requirements:**
1. She/he must be a U.S. Citizen.
2. At the time of application, an applicant must currently be enrolled at a LaSPACE College/University. Alternatively, the applicant can be in his/her senior year of high school, or a recent high school graduate, and must have applied for admission to a LaSPACE member college or university.
3. The current or prospective field of study of an applicant must be in a STEM discipline, with a space- or aerospace-related program. NASA Workforce Development goals imply that students must express interest in an aerospace related career.
4. An applicant must pursue his/her undergraduate degree on a full time basis.
5. The applicant must coordinate with a faculty/mentor who will file a joint application with the student.
6. The student applicant must be able to devote 10-20 hours per week to the project.
7. The proposal must include a project plan written with the PI that details all the tasks and deliverables to be completed by the student, and a final report, also jointly written, must be produced with results that match the submitted project plan.

**NOTE:** Occasionally, a student originally included in the project proposal cannot participate. It is permissible for the PI to replace the student, but this replacement must be requested in writing and approved by the LaSPACE office (including LaSPACE approval of the new student’s application).

**Faculty Mentor/Principal Investigator**
1. The faculty member must be affiliated with a LaSPACE campus.
2. The faculty member must serve as mentor to the student researcher and be contractually responsible for the award.
3. The faculty/mentor must be engaged in space related research or education, which relates to one of the NASA Mission Directorates as discussed earlier.
4. The proposal must include a project plan written with the student that details all the tasks and deliverables to be completed by the student, and a final report, also jointly written, must be produced with results that match the submitted project plan.

**NOTE:** A change in PI is possible if justified in a written request and approved by LaSPACE.

**LURA Award Funds, Duration, Number, and Restrictions**

**Award Funds**
A LURA award is set at $6k per student with no match requirement. The majority of the funds (≥$5k) are to be distributed directly to the student. It is recommended that some travel funds be budgeted for the student to attend at least one professional meeting; including, if possible, the annual LaSPACE Council Meeting Student Poster Session held in the fall each year. No more than $750 can be used for materials and supplies.

Award funds will be provided to the LaSPACE College or University in which a winning PI/student candidate team is enrolled, via cost-reimbursable subcontract. The campus will assume responsibility for administering and distributing these monies according to standard procedures and consistent with all federal and state rules and guidelines. It is understood by all LaSPACE member campuses that these funds are to be used for support of the student award recipient and for supplies and/or travel.

In order to complete goals, and with prior written justification, a No Cost Extension may be granted.

**Duration**
A LURA award is usually for a 12-month period. Awards for fewer than 12 months are also possible.

**Number of Awards**
LaSPACE intends to award 5 to 8 LURA teams 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, Hispanics, women, and persons with
disabilities are strongly urged to apply. No applicant shall be denied consideration or appointment to a LaSPACE Undergraduate Research Assistantship on the grounds of race, creed, color, age, gender, or disability.

**Student Support**
The majority of the award is expected to be student support.

**Supplies**
The materials and supplies budget category is limited to $750.

**Travel**
The travel budget category is restricted to travel for the students. No foreign travel is allowed.

**Equipment**
The use of LaSPACE LURA grant funds for the purchase of equipment is prohibited.

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

**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 the research 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’s final/preliminary technical report and final financial report are submitted and approved. There can be no overlap of the periods of performance on consecutive awards.

**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.
LURA Proposal Requirements & Format
LURA proposals should be submitted as fully searchable pdf documents via email to laspace@lsu.edu. A LURA proposal must include the following completed sections in the order presented:

- LaSPACE Cover Page
- Proposed Project Summary Form
- Prior LaSPACE Awards Form
- LURA Student Application Form written by the Student Researcher/Applicant (not to exceed 7 pages including application cover sheet)
- Proposal Narrative written by the Faculty Mentor/PI (not to exceed 5 pages)
  - Overview of the Faculty Mentor’s research
  - Proposed work plan for the student, including a timeline with major milestones
  - Benefits to the Student (technical & scientific skills)
  - Professional Development Opportunities (lab meetings, authoring papers, poster presentations, etc.)
  - Benefit to the Research Project (how will the student researcher help advance your project)
- Letter of Recommendation from the Faculty Mentor/PI for proposed student
- Budget (LaSPACE Budget Form followed by narrative explanation of all costs)
LURA Evaluation Criteria

Each proposal will be evaluated on the following criteria:

1. (15 pts.) Scholastic achievements of the student applicant (considering GPA, ACT/SAT scores, awards & honors):
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

2. (15 pts.) Degree of demonstrated science/technical experience, aptitude, and proposed participation:
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

3. (15 pts.) Demonstrated leadership qualities and intellectual capacity:
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

4. (20 pts.) Relevance of the project & work plan to NASA Space/Aerospace science research & development.
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

5. (20 pts.) Clarity and relevance of the proposed project tasks to the development of the student’s academic and scientific knowledge.
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

6. (15 pts.) Clarity and relevance of the proposed project tasks to the student’s professional development and communications skills.
   Circle One: Poor  Fair  Average  Good  Unusual  Outstanding
   Comments:

Top ranked proposals will be further reviewed & ranked for diversity of participation, breadth of scientific fields, and geographic distribution at campuses around the state.
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 LURA 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

<table>
<thead>
<tr>
<th>NAME OF INSTITUTION (INCLUDE BRANCH/CAMPUS AND SCHOOL OR DIVISION)</th>
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<tr>
<th>ADDRESS (INCLUDE DEPARTMENT)</th>
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<tr>
<th>PRINCIPAL INVESTIGATOR</th>
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<thead>
<tr>
<th>STUDENT RESEARCHER</th>
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<th>PROJECT TITLE</th>
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<tr>
<th>PROPOSED PROJECT START DATE (within 60 days from our proposed start date)</th>
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<tr>
<th>ABSTRACT (DO NOT EXCEED 250 WORDS)</th>
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</table>
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: _______________________________________________________________

<table>
<thead>
<tr>
<th>LaSPACE Funds Requested</th>
<th>Institutional Match Funds*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Direct Labor</strong></td>
<td></td>
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<tr>
<td>1. Researchers</td>
<td>$</td>
</tr>
<tr>
<td>2. Graduate Student(s)</td>
<td>$</td>
</tr>
<tr>
<td>3. Undergraduate Student(s)</td>
<td>$</td>
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<tr>
<td>4. Fringe Benefits</td>
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<tr>
<td>5. Subtotal A</td>
<td>$</td>
</tr>
<tr>
<td><strong>B. Supportive Expenses</strong></td>
<td></td>
</tr>
<tr>
<td>1. Travel</td>
<td>$</td>
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<tr>
<td>2. Supplies &amp; Materials</td>
<td>$</td>
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<tr>
<td>3. Communications</td>
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<td>4. Equipment</td>
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<td>5. Other Expenses</td>
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<td>(Identify)</td>
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<tr>
<td>6. Subcontracts</td>
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<tr>
<td>7. Subtotal B</td>
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<tr>
<td>8. F&amp;A (Indirect)</td>
<td>$</td>
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<tr>
<td><strong>C. Total Project Cost</strong></td>
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</tbody>
</table>

*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?
____________________________________________________________________________________

Revised 06/2015
The updated LURA application form is included after this page. It must be completed and signed by the student, and included in the complete proposal to LaSPACE.
LaSPACE Undergraduate Research Assistantship (LURA) Application

Revised 06/2015

Name: ____________________________________________________________ Date of Birth __________________

Permanent Address: ________________________________________________

_________________________________________________________________

Primary Telephone: ____________________ Primary e-mail: ____________________________

Secondary Telephone: ____________________ Secondary e-mail: ____________________________

University: _______________________________ ________________________________

Current Classification (circle one): Freshman Sophomore Junior Senior

Major(s)/Minor(s):_____________________________________________________

Current G.P.A.: ____________________ SAT or ACT Scores: ___________________________

Anticipated Graduation (Month/Year): ______________________________________

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

Race: _____________________________________________________________________
(African-American/Black; Asian; American Indian/Native American; 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

Faculty Mentor: ____________________________ Department: __________________________

Advisor Phone: ____________________________ Advisor E-mail: ___________________________

Student Applicant Signature: ______________________________________ Date: __________________________
Insert Last Name at the top of All Pages

List in REVERSE chronological order colleges/universities and the last high school attended starting with current institution.

<table>
<thead>
<tr>
<th>Institution</th>
<th>City</th>
<th>State</th>
<th>Dates Attended</th>
<th>Degree Earned or expected</th>
<th>GPA/Base</th>
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<tbody>
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</tbody>
</table>

Use up to 6 pages to complete the following sections (Insert Last Name at the top of All Pages)

1. List scholarships, academic honors, student leadership roles, honorary societies, awards, and any other recognition relevant to your application (Include any scholarship or office of any kind held at the time of the submission of this application).

2. List any work experiences, research activities, or outside interests relevant to your field of study.

3. In a concise statement, summarize the objectives of your educational program and your long-range professional goals and how participation in this LURA program and this research project will help you achieve your goals (Provide sufficient information for evaluation by reviewers).

4. Discuss the NASA/Space/Aerospace relevance of the research project and its relationship to your academic/professional goals.

5. Provide a summary of the project work plan detailed by the PI in the proposal, delineate the specific work you will do, capabilities & skills you will acquire, and list all expected deliverables or outcomes (including planned presentations, if known).