



LiftOff 2017: Starry Night Summer Professional Development Institute June 26 – June 30, 2017



PROGRAM ANNOUNCEMENT

Beginning in the summer of 1990, the NASA's Texas Space Grant Consortium initiated weeklong professional development training for teachers. This aerospace workshop, called LiftOff, emphasizes science, technology, engineering, and mathematics (STEM) learning experiences by incorporating a space science theme supported by NASA missions. Teacher participants are provided with information and experiences through speakers, hands-on activities and field investigations that promote space science and enrichment activities for themselves and others.

PROGRAM HIGHLIGHTS

A solar system is a star and all of the objects that travel around it – planets, moons, asteroids, comets, and meteoroids. NASA is conducting an unprecedented array of missions that will seek new knowledge and understanding of Earth, the solar system and the universe.

Multiple NASA missions are studying our sun and the solar system, unraveling mysteries about their origin and evolution. By understanding variations of the sun in real-time, we can better characterize space weather, which can impact exploration and technology on Earth. In August 2017, a total eclipse of the Sun is visible from a narrow corridor that traverses the U.S. Educators will receive background information on the Sun while analyzing the characteristics of objects in the solar system that allow life to exist. Learn about Day and Night, Seasons, and Tides.

The first human footsteps on Mars will follow rover tracks. A fleet of robotic explorers already is on and around Mars, dramatically increasing our knowledge about the Red Planet. The planet once had conditions suitable for life, making it a rich destination for scientific discovery and robotic and human exploration as we expand our presence into the solar system. The formation of Mars and its evolution are comparable to Earth, helping us learn more about our own planet's history and future. Future exploration could uncover evidence of life on Mars, answering one of the fundamental mysteries of the cosmos: Does life exist beyond Earth?

NASA telescopes also are peering into the farthest reaches of the universe and back to its earliest moments of existence, helping us understand the universe's origin, evolution, and destiny.

Technology drives exploration. On Earth and in space, NASA is developing, testing and flying transformative capabilities and cutting-edge technologies for a new future of human and robotic exploration. We take emerging technologies and mature them, delivering innovative solutions that can improve our capabilities to explore, save lives and create economic growth.

To help humans reach an asteroid and Mars, we'll continue to evolve technologies like advanced solar electric propulsion, large-scale solar sails, new green propellants, and composite cryogenic storage tanks for refueling depots in orbit. These new space technologies will spawn new knowledge and capabilities to sustain our future missions.

Join us as we reach for new heights to reveal the unknown at: **Starry Night!**

Eligibility requirements for participants are provided by the Texas Space Grant Consortium program announcement.

Should you require additional assistance, please visit our web site at: <http://www.tsgc.utexas.edu/>
or contact the Outreach Coordinator at 800-248-8742 or baguio@tsgc.utexas.edu

Texas Space Grant Consortium Summer Institute
For Middle and High School Educators
June 26 – June 30, 2017

Applications due:
April 14, 2017

Texas Space Grant Consortium
3925 W. Braker Lane, Suite 200, Austin, Texas 78759



PROGRAM FEATURES

- Presentations by NASA scientists and engineers
- Tours of NASA and Space Center Houston
- Hands-on, inquiry based classroom activities aligned to educational standards
- Career Exploration
- Teacher Feature (sharing of classroom lessons and activities)
- Opportunity to interact with researchers dedicated to space missions

ELIGIBILITY REQUIREMENTS

1. Currently employed as a 4-12 grade classroom educator
2. Minimum one year teaching experience prior to workshop
3. Demonstrate willingness to share information with others
4. Must be a U.S. citizen

REGISTRATION INFORMATION

- Texas Participants: FREE - All expenses paid by TSGC upon selection
- Out-of-State: \$750 registration fee + travel to Houston, Texas
- Applications: Must be submitted online

This program announcement is contingent upon receiving NASA funding.

DEADLINES:

All applications due:
April 14, 2017

On-line:

<http://www.tsgc.utexas.edu/liftoff/>

Questions?

Texas Space Grant Consortium
3925 W. Braker Lane, Suite 200
Austin, Texas 78759

Phone: 800-248-8742

Fax: 512-471-3585

E-mail: baguio@tsgc.utexas.edu

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General Information *(please print)*

First name:		Middle:	Last:	
Home Address:				
City:		State:	Zip:	
Home Phone:			Home Fax:	
Home E-mail:				
U.S. Citizen:	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Ethnicity**:	<input type="checkbox"/> White <input type="checkbox"/> Hispanic <input type="checkbox"/> Black <input type="checkbox"/> Pacific Islander <input type="checkbox"/> Other			
Gender**:	<input type="checkbox"/> Male <input type="checkbox"/> Female		**Gender and ethnicity are strictly used for NASA reporting purposes only and is optional	

Professional Information *(please print)*

School:				
School Address:				
City:		State:	Zip:	
School Phone:		School Fax:		
School E-mail:		School District:		
Principal/Supervisor Name:				
School Type (check all that apply):		<input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Charter <input type="checkbox"/> Urban <input type="checkbox"/> Rural		
Elected Officials:	Senator:			
	Representative:			

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Professional Information continued

Grades you currently teach (check all that apply):	<input type="checkbox"/> K	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6
	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9	<input type="checkbox"/> 10	<input type="checkbox"/> 11	<input type="checkbox"/> 12	
Subjects:	<input type="checkbox"/> Math		<input type="checkbox"/> Science		<input type="checkbox"/> Technology		<input type="checkbox"/> Geography
	<input type="checkbox"/> Other:						
Current Position/Title (check all that apply):	<input type="checkbox"/> Teacher				<input type="checkbox"/> Curriculum Specialist		
	<input type="checkbox"/> Other:						

Professional Experience

I am part of an interdisciplinary team – team members include:

What is your formal education and teaching experience? (Degree, Years Taught, etc.)

What is your current assignment? (Describe job responsibilities and other related duties.)

List professional activities. (In-service participation, membership in professional organizations, # workshops taught and audience.)

Other teacher-related activities. (Educational outreach activities in the community, youth programs, etc.)

If you have never attended LiftOff before, on a separate page, answer the following questions, minimum 100 words, maximum 500:

- What do you expect to gain from attending the LiftOff Summer Institute?
- What are some ways you would incorporate space science materials into your classroom?
- How would you share the information you receive with fellow educators?
- Why would you like to be selected for the LiftOff Summer Institute?

If you have attended a LiftOff Summer Institute in the past, on a separate page, answer the following questions, minimum 100 words, maximum 500:

- How have you used the LiftOff information, lessons, and resources with students?
- In what ways have you shared the LiftOff information with fellow educators?
- How has the LiftOff Summer Institute helped you as a teacher?
- Why would you like to be selected to return for the LiftOff Summer Institute?

I certify that the information in this application is accurate to the best of my knowledge.

Signature of Applicant

Date

Signature of Principal/Supervisor

Date

Submit application by April 14, 2017 to:

LiftOff Summer Institute 2017
Texas Space Grant Consortium
3925 W. Braker Lane, Suite 200
Austin, Texas 78759

How did you hear about the LiftOff Summer Institute? (check all that apply)

<input type="checkbox"/> colleague/administrator	<input type="checkbox"/> advertisement
<input type="checkbox"/> convention/conference	<input type="checkbox"/> NASA Educator Program
<input type="checkbox"/> Teacher Training	<input type="checkbox"/> TSGC
<input type="checkbox"/> Web	
Recommended by:	
Other:	

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