



### **Program Mission**

The Perot Museum of Nature and Science operates Leaders in Science (LIS), a professional development program for pre-kindergarten, kindergarten and elementary teachers aimed at improving the quality of science instruction in their classrooms. Specifically, the mission of this program is to develop and support four essential characteristics of teaching:

1. To increase the **confidence** of teachers providing science instruction to students;
2. To increase the **competence** of teachers' science knowledge to improve instruction;
3. To provide more **creativity** and creative choices in the science classroom;
4. And to increase the **consistency** at which science is taught in the classroom and on campuses.

### **Leaders in Science Campus Roles and Responsibilities**

#### **Principal**

- Principal recommendation of teacher applicant(s) required for participation
- Encourage teacher attendance and participation at Saturday training workshops
- Meet with participating teachers to discuss lessons and reflections; maintain a log of meetings
- Provide opportunities for participating campus LIS teachers to train staff on workshop lessons and activities during the school year
- Participate in quality surveys and feedback
- Help with program improvement, provide interviews, walk-throughs for Museum staff and potential funders

#### **LIS Teachers**

- Principal signature required for teacher participation
- Attend at least 5 scheduled Saturday workshops (6 hours each) held at the Museum during the school year
- Teach one Museum created lesson from each Saturday workshop to own class and submit reflection to principal on what worked/didn't work, etc., along with student work samples
- Serve as mentor to at least one teacher and maintain a mentor reflection journal as documentation; meet a minimum of 10 hours with mentee during the 2014-2015 school year
- Provide a workshop to campus science teachers on LIS activities and lessons and maintain documentation of attendance and dates **OR** create and present a TEKS-focused lesson at a Leaders in Science Saturday workshop
- Participate in quality surveys and feedback
- Help with program improvement and provide interviews as needed

#### **Application/Selection Process**

Applications for participation in Leaders in Science 2014-2015 school year are currently being accepted. Due to limited space, only 80 applicants will be selected.



## **Important Dates**

### **Important Dates 2014-2015 School Year**

<b>September 20</b>	<b>Physics Fun</b> Perot Museum of Nature and Science 9:00 am – 3:00 pm
<b>September 27</b>	<b>Science Day at the Dallas Zoo</b> Dallas Zoo – 650 South R. L. Thornton Freeway (I-35E), Dallas, TX 75203 Registration through the Dallas Zoo website
<b>October 11-12</b>	<b>Audubon Overnight Camping at Cedar Ridge Preserve</b> Location information will be sent at a later date 6:00 pm – 11:00 am Registration information will be sent to all LIS participants at a later date. Limited number of spaces available - 20
<b>October 25</b>	<b>Exploring Earth</b> Perot Museum of Nature and Science 9:00 am – 3:00 pm
<b>November 15</b>	<b>Project Aquatic Wild</b> Children’s Aquarium at Fair Park Dallas, 1462 First Avenue, Dallas, TX 75210 Time TBD Limited Number of spaces available - 18
<b>January 24</b>	<b>Mixing it Up with Chemistry and Properties of Matter</b> Perot Museum of Nature and Science 9:00 am – 3:00 pm
<b>February 7</b>	<b>Science with the Dallas Museum of art</b> Dallas Museum of Art - 1717 N. Harwood, Dallas, TX 75201 Time TBD Limited Number of Spaces TBD
<b>March 28</b>	<b>Learning About Life and the Environment</b> Perot Museum of Nature and Science 9:00 am – 3:00 pm
<b>April 11</b>	<b>Australia Adventure – Dallas Zoo</b> 650 South R. L. Thornton Freeway (I-35E), Dallas, TX 75203 Time TBD Registration information will be sent to all LIS participants at a later date. Limited number of spaces available - 30
<b>May 02</b>	<b>Studying Space</b> Perot Museum of Nature and Science 9:00 am – 3:00 pm

*All non-Perot workshop location dates may be subject to change.*



## Individual Application Professional Development Institute

Last Name	First Name	M.I.	School Name
Home Mailing Address		School Address	
City	State	ZIP	
Home Phone Number	Cell Phone Number	School Phone Number	School FAX Number
Personal/Summer Email Address	School/Work Email Address	Principal Name	Principal Email Address

2014-2015 Position (check all that apply)		
<input type="checkbox"/> Classroom Teacher	<input type="checkbox"/> Science Lab Instructor	<input type="checkbox"/> Dept. Chair/Lead Teacher

Grade(s)/Subject(s) Taught (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 checked="" type="checkbox"/> Science	<input type="checkbox"/> Math		<input type="checkbox"/> Reading				
<input type="checkbox"/> Language Arts	<input type="checkbox"/> Writing		<input type="checkbox"/> Social Studies		<input type="checkbox"/> Library		
<input type="checkbox"/> Bilingual	<input type="checkbox"/> Gifted/Talented		<input type="checkbox"/> Technology		<input type="checkbox"/> Other:		

Number of years of classroom teaching experience:		Number of years at this campus:	
Number of years of science teaching experience:		Number of years of experience teaching current grade level:	

Texas State Educator Certification (check all that apply)			
<input type="checkbox"/> Certified for all subjects or grades I currently teach		<input type="checkbox"/> Certified, but not for all subjects/grades I currently teach	
<input type="checkbox"/> Currently pursuing certification		<input type="checkbox"/> Currently under Emergency, Provisional, or Temporary certificate	
<input type="checkbox"/> Science 4-8	<input type="checkbox"/> Math/Science 4-8	<input type="checkbox"/> Science 8-12	<input type="checkbox"/> Chemistry 8-12
<input type="checkbox"/> Generalist EC-4	<input type="checkbox"/> Generalist 4-8	<input type="checkbox"/> ESL Supplemental	<input type="checkbox"/> Life Science 8-12
<input type="checkbox"/> Bilingual/Generalist EC-4	<input type="checkbox"/> Bilingual/Generalist 4-8	<input type="checkbox"/> Bilingual Supplemental	<input type="checkbox"/> Physical Science 8-12
<input type="checkbox"/> Generalist EC-4	<input type="checkbox"/> Generalist 4-8	<input type="checkbox"/> Other:	



Please describe why you would like to participate in the **Leaders in Science Professional Development Institute**, and how you plan to provide more inquiry and integrate STEM in the science classroom.

How do you hope your campus science culture will benefit from your participation in the **Leaders in Science Professional Development Institute**?

What structures or strategies are currently in place on your campus that support teacher collaboration, and how could these be used to further the mission of **Leaders in Science**? Please include personal mentoring experience, as well as your mentoring goals.



**APPLICANT:** I certify that the information above is correct to the best of my knowledge. I understand the following requirements of all **Leaders in Science Professional Development Institute** participants:

- Deliver at least one Museum-created lesson from each Saturday workshop in my classroom, and submit student work samples and a written reflection to my campus administrator on the relative effectiveness of the lesson;
- Present at least one professional development workshop with information from an LIS workshop to my campus **OR** create one lesson to be presented at a Leaders in Science Saturday workshop;
- Serve as a science mentor to at least one teacher (to be selected by my campus administrator), meet a minimum of 10 hours during the school year with my mentee, and maintain a mentor reflection journal as documentation;
- Attend at least five Saturday Professional Development Workshops at the Perot Museum of Nature and Science or a partner institution;
- Participate in quality surveys and feedback;
- Assist with program improvement, and provide interviews as needed.

**Teacher Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**PRINCIPAL:** *(must be signed by campus principal)* I recommend the teacher identified above for participation in the **Leaders in Science Professional Development Institute**. I understand the requirements of her/his participation, and will support their highest commitment to the program and its mission.

**Principal Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Please mail, fax, or e-mail this form to:**

Leaders in Science  
Professional Development Institute  
2201 N. Field Street  
Dallas, TX 75201  
FAX: (214) 756-5889  
E-MAIL: [lis@perotmuseum.org](mailto:lis@perotmuseum.org)

**Questions? Please contact:**

Lisa Dwinal at (214)756-5824 or [lisa.dwinal@perotmuseum.org](mailto:lisa.dwinal@perotmuseum.org)

## Benefits and Requirements for Participating Teachers and Principals

### **Benefits for Participating Teachers:**

- One year of extended professional development focused on increasing the confidence of teachers providing science instruction, increasing competence of teachers' science knowledge to improve instruction,
- A minimum of 30 CPE hours
- One complimentary Adult Individual Perot Museum Membership (Upgraded membership levels are available for a reduced charge)
- Exclusive invitations to Museum events (e.g. lectures, exhibit openings, film previews)
- Online access to all Perot Museum created lessons and activities

### **Benefits for Principals and Campuses:**

- A teacher trained in research-based science teaching practices and leadership
- Periodic updates detailing LIS and Museum program activities and upcoming events

### **Requirements of Participating Teachers:**

- Attend minimum of five scheduled Saturday workshops (6 hours each) held at the Museum (or area informal science providers) during the school year
- Create at least one TEKS-based science lesson (using a Museum-created template) to be shared at an MNS LIS workshop **OR** present one PD workshop with MNS LIS information to campus staff
- Deliver at least one Museum-created lesson from each Saturday workshop in my classroom, and submit student work samples and a written reflection to my campus administrator on the relative effectiveness of the lesson
- Serve as a science mentor to at least one teacher (to be selected by your campus administrator)
- Meet a minimum of 10 hours per school year with mentee
- Maintain a mentor reflection journal as documentation
- Complete evaluations and surveys as required to measure personal professional growth and to evaluate program effectiveness

### **Requirements of Principals:**

- Support participant in attending the full complement of Saturday training workshops
- Support participant as a change agent for your campus' science program, including making available time and resources wherever possible to facilitate the participant and MNS staff in impacting the classroom science practices of other campus teachers
- Complete short surveys and/or interviews about program impact