

Lloyd Center for the Environment  
430 Potomska Rd  
Dartmouth, MA 02748

*Come get your feet wet with inquiry-based learning!*



# Museum Institute for Teaching Science

2016 Summer Professional Development Institute  
Hybrid Institute For Grades 3-8 Educators

*Using Science and Engineering Design  
Practices to Engage Your Students  
in Inquiry-Based Learning*



## Southeast Region

*To the Moon and Back:  
Engaging Your Students in Earth and Space  
Science Through Inquiry*

**On-Site July 18-22**  
**On-Line June 18-August 5**



## Southeast Region

### Hybrid Institute for Grades 3-8 Educators

#### *To the Moon and Back: Engaging Your Students in Earth and Space Science Through Inquiry*

Blast off into inquiry-based learning with a journey from Earth to space in this hybrid course! Engage with online content, group discussions, and hands-on, minds-on inquiry activities, and explore ways to use technology, engineering and math to excite and educate your students about earth science concepts. Examine how tides are controlled by the moon and sun, create earth/moon models, and explain how tidal and weather events are important to local ports and harbors. Dig deep into soil science, collect your own samples, and uncover different properties and patterns of soil formation through data analysis. Explore ways to bring plate tectonics alive in your classroom while you investigate and explain the geographical features we see on Earth -- above and below the ocean's surface. Take a telescopic view as you investigate the stars and beyond, and bring astronomy into a context that is more accessible for students. Learn how technology and engineering have advanced our understanding of earth and space systems. Throughout the institute, practice a variety of tools, methods and technologies, and tap into your background knowledge to construct inquiry-based activities to explore the realms of Earth and space with your students.



**Partners:** Lloyd Center for the Environment, Battleship Cove, University of Massachusetts Dartmouth

**Course Dates:** On-Site July 18-22 (8:30 am - 3:00 pm); On-Line June 18-August 5; Half Day On-Site Introductory Session June 11; Half Day Fall Callback November 5

**Registration Fee:** \$400/participant; \$375/participant for team of 2 or more teachers from the same school district

**PDPs and Graduate Credit:** Cambridge College (4 credits, 90 PDPs; \$200), Framingham State University (4 credits, 90 PDPs; \$300); 50 PDPs available without graduate credit. PDPs and graduate credit will be awarded after participation in the Fall Callback.

Participate in content and skill development sessions taught by professional educators and scientists at each collaborating partner organization. Daily activities include indoor inquiry-based classroom experiences and outdoor field experiences. Take home investigations you can use in your classroom and a collection of teaching resources and field trip ideas!

- **Learn** how to present the Science and Engineering Practices to your students and how they relate to science inquiry.
- **Explore** STEM resources in your community.
- **Get ready** to meet the revised MA Science and Technology/Engineering Standards.
- **Become** part of a network of teachers from your region and across the state.



Visit [www.mits.org](http://www.mits.org) for more info on this and MITS Professional Development Institutes in other regions and to register online.

*For more information contact:*

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